Human cDNA sequence

#### 1/124

AGACGAGACCTGGATAGTCCTGAGGAACTGAAAAAACCAGAAGAAGATTTTTGACAGGCATGGGAATGCTGGTGGCAAGTGTGGAAGACTGTGTCCTGGACTTCCTGAAGACCCCGAGAA DETWDSPEELKKPEDF	1261
TGATAACATCAGCACTGAATGACCTGAACACCACATCCTCTGTCAGCTCTCTIACCTCCAACATCACCGTCCCCTCTAGGAAAGAATACTCAGCTGAGGACAGATTCAGAGAAACGCTCCACCAC DNISTDDLN NOT SSVSSYSNIT VPSRKNTACTCAGCTGAGAAAACGCTCCACCAC	1801
CCGAATACCAGACACCAGCAACTTCCCGGGACATCCAGAGAGAG	1681
GGTCGATGTGGGTGATATATGAGTGATGGTGATATCCTYGGGAAAAAGTCTCAGGACTGATGAACATTGAACAGTGGGTACATGACAGATGGAGGACTTAACCTATATACTAGAAGTCTGAA V D V G G Y M S D G D I L G K S L R T D D I N S G Y M T D G G L N L Y T R S L N	1001
AGACCCCTCGAGGTTCATGTATTACCACGCCTCTCCGTCGAGCTGCTGTCTTAGGCTGGGAAACATGTCACAGATTGACATGAGTGAG	1441 1441
AAGTCGACCCACCCCCATGACCTGGAAGGTTGGGCCAGGGCATGCCACGCGACTTCCAGGCGGGACATTGCTTCCCTTCCCTTGGGTGCTTATTCCTCGCAGTGGTACCAGTCGATTCATCCACÁC S R P T P M T W R L G Q A C P R L Q A G D A P S L G A G Y P R S G T S R F I II T	, 13 , 23 , 13
GAATTTIAGAAGAGACTATGTCCAGTCTGGGACTCAGATAAGCCACAGCACCCTGGAGACAACATTTIGACAGCACTGTGACAACAAGAAGTTAATGGAAGGACCATACCCAACTGAC $\Gamma$	1201
TCAGAGCTTTAACAGCATTGACAAAAAAAAAAACAAGCCTCCAAAATTAAGCAAATTGGAAACGAAAAAAAA	1081
GGNAGCCAGGCCAAAACCCAGGAAGATATGCAAGTCCAGGCTTCCAGGGCCCTCTAGGGTGCCTGCTGCAGGAAGCAGCAGCAAGGTCCAGGGAGCCTCTAATTTAAATAGGAGAAG E A S Q A K T Q Q D M Q S R L P G P S R V P A A G S S K V Q G A S N L N R R S	961
AGCCATTCTAGGGCTGTTTTTTCAGTTTTATCTCGCTACAAGCAAG	841
ATGTCCTAGAAGTCTCAGATGATGAGAAAATGTTGATGTCTGCCTTAGTTTCTAGCAGCCAGAGGGGTAAATGTTCAAGGTCTATCTGCTGAAGAAAATAAGAAATGGAAACTTAAA C P R S Q S Q M I E N V D V C L S F L A A R G V N V Q G L S A E E I R N G N L K	721
CCTAGCAAAATCAGGCCACAAGGGCTGATCAAGGACTTGCAAGACATTGCAGATGAGTACTCCTAGCAGAATCATCCAGATTATTGCAAATGAAAAGTTGAAGATATCAATGG LAKSGHKRLIKDLQQDIADG	601
TGAAGGGCAAGAACCTAATGTGATGATGATCATCAGAAATGAACAGACATGGGAAGACATGAGAAGATCAGAAGATCAGAAGATTTACACTGACTG	, 44 , 4 , 1
ATCATTCCTTGGAGTCGATGAAGTTCGGAAACGGTGTGTGATGGGGAACGTGGGGGAACGTGGGGGCCAGTGTGTTCCTAGAAATTGCATCTTGGATTIAGTTTIGCTGCTTTTTTTGAAGAGATTCCATTT	361
AATTCTCGGATGACTATTTTGCTTTTGAGGAGTCAGCATTTAAAAAACGATATGCTGATTTTGGAAGGTCCTGGGAGTAAACTGCAAACTTTATTTTTTCCATTCAATCGATTTTTTTA	241
CGCAAACCTGAGGATTTCCGCGGCCCGGCCGGCAAGACCTCGGCCAGGTFTTACAGGAAATCTGTCATTTTTTTATTAAAAATGGAAAAACTGTGAAGAAAAAAAA	121
CTCTCAGCGGCCCAAGCAGTTTCTTGTTGTGGGTGACAAGAATGTGCCTCGGTTGGTT	<u> </u>

Fig. 1

# Fig. 1 (cont'd)

		2/ 124														
3961	3841	3721	3601	3481	3361	3241	3121	3001	2881	2761	2641	2521	2401	2281	2161	2041
AAGTCTAACTATGACAGCGGAACAAAAGGGAATCTGAAACTTATAGAACTAAGAGAAAACCATIGAAATGCTGAAGGCTCAGAATTCTGCTGCCCAGGCGGCTATTCAGGGAGCACTGAATG S L T M T A E Q K E S E L I E L R E T I E M L K A Q N S A A Q A A I Q G A L N G	GCGGAGAGAGCTGGTTGCATCACAAGAAAAAGTTGCTACCCTCACATCTCAGCTTTCAGCAAATGCTCACCTTGTAGCAGCTTTTGAAAAAGAGCTTAGGGAATATGACTGGCCGATTGC R R E L V A S Q E K V A T L T S Q L S A N A H L V A A F E K S L G N M T G R L Q	GGGCTCATTCAGAGACAGCATGGAAGAAGTTCATGGCTCTTCATTATCACTGGTGTCCAGCACCTTCTTCTCTCTTTACTCTACAGCTGAAGAAAAAGGCTCATTCAGAGCAAATCCATAAAC $^{\prime}$ G S $^{\prime}$ F R D S M E E V H G S S L S L V S $^{\prime}$ S T S S L Y S T A E E K A H S E Q I H K L	CAGCATGATGCGCTCAAACAGCATCCCAGCCCAAGACTCTTCCTTC	CACTGGCAACCAGTCACCTCTGGTTTCCCCCTTCTGCCATGTCATCTTCTGCAGCTGGAAAATACCACTTTTCTAACTTGGTGAGCCCAACAAATTTGTCTCAATTTAACCTTCCCGGGCCTCTGCAAAAATACCAGCTTTCCAAAAAATACCAGCTTTCCCGGGCCAACAAAATTTGTCTCAATTTAACCTTCCCGGGCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAACTTTAACCTTCCCGGGCCCAACAAAATTTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAAATTTGTCTCAAATTTAAACCTTCCCGGGCCCAACAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAATTTGTCTCAAATTTAACCTTCCCAGGCCCAACAAATTTGTCTCAAATTTAACCTTCCCGGGCCCAACAAATTTAACCTTCCCAAAAATTACCAACTTTAAACTTTAAAAATTACCAACTTTTAAACTTTTAAACTTTAAACTTTAAACTTTAAAAATTACCAACTTTTAAACTTTTAAACTTTAAACTTTAAAAAA	GCAGCTTGACAGAAATACACTACCCAAAAAAGGGACTAAAGATATACCCCCATCATCTCTGGGCAGGCCCAACCAA	GTCCATTGACCTCCCCCTCAGCCATCATGGCTCCTTGTCTGGACTGACCACAGGCACTCACGAGGTCCAGAGGCCTGCTCATGAGAACGGGTAGTGTGAGATCTACTCTCTCT	ATCGGTTCACTCTTTCACATCAGGTGGTCTCGTGTGGGCTGCCAATATGAGCAGTTCCTCTGCAGGCAG	TACGGGCAGCATGGGCAGTGGGCTGAGCGGCAGCAGCAGCAGCAGCCTCTCTTCAATAAACCTTCAGACTTAACTACAGATGTTATAAGCTTAAGTCACTCGTTGGCCTCCAGCCCAGC T G S M G S A G G L S G S S P L F N K P S D, L T T D V I S L S H S L A S S P A	CAAGGCAGGTGGCAAATCTGCCTCTGCACCTAATACTGAGGGTGTGAAATCTTCCTCAGTAATGCCCAGCCCTAGTACCACATTAGCGCGGCAAGGCAGTCTGGAGTCACCGTCGTCGTCG KAGGKSAASAPNTEGVKSSASAPNTEGVKSSSVMPSPSTTLARQGSLAGTCTGGAGTCAGCGC	GTCAGGTTCCCCCAAATCCAGCCCCACCTCTGCCAGCGCCTGTGGTGCACAAAGGTCCAAGGTCTCAGGCAGG	CACCTCGAAACTGAGAGAACCAACTAAAATTGGGTCAGGGCGCTCGAGTCCTGTCACCGTCAACCAAACAGACAAGGAAAAAGGAAAAAGTAGCAGTCTCAGAATTCAGAAAGTGTTTCTTT T S K L R E P T K I G S G R S S P V T V N Q T D K E K E K V A V S D S E S V S L	ATATCGCAGCTTGCCCCCCCTTCAAAATCCAGCACCAGTGGCATTCCTGGCCGAGGAGGCCACAGATCCAGATCCAGCAGTATTGATTCCAACGTCAGCAGCAAGTCTGCTGGGGCCAC	TAAAATTCCAAAATCTGCTGCCATTGGCGGGAAGTCAAATGCAGGGAGAAAAACCAGTTTGGACGGTTCACAGAATCAGGATGATGTTGTGCTGCATGTTAGCTCAAAGACTACCCTACA K I P K S A A I G G K S N A G R K T S L D G S Q N Q D D V V L H V S S K T T L Q	AGGCATTGGAAGATCGACTGCCACCAGCTCCTTIVGGCTTTAAGAAACCAAGTGGAGTIAGGGTCATCTGCCATGATCACCAGCAGTGGAGCAACCATAACAAGTGGCTCTGCCAACACACTGGCGIGGAGAAGACGAGTGGAGCAACACACTGGCGAGAAGACACACAC	$GANAANCCGA_TGATGCCNAAGCTTCTGAGAAAAGGANAAGCTTCCCCTAAAAAGGATCTTCTTNCAAAAGATCTCCTTCAGATGCAGGAAAAAAGCGCGGAGATGAAGGGAAAAAAAGCCCCCCCTCK Y D D A K K S G G K K K P P S$	GGCAGGGCAGAAAGCTTCCCTGTCTGTTTCACAGACAGGTTCCTGGAGAAGAGGCATGTCTGCCCAAGGAGGGGGCGCCATCTAGGCAGAAAGCTGGAACAAGTGCACTCAAAACACCCGG $_{ m A}$ $_{ m G}$ $_{ m C}$ $_{ m K}$ $_{ m A}$ $_{ m S}$ $_{ m V}$ $_{ m C}$ $_{ m R}$ $_{ m G}$ $_{ m R}$ $_{ m R}$ $_{ m R}$ $_{ m R}$ $_{ m G}$ $_{ m R}$ $_{ $

Fig. 1 (cont'd)

CACACCATGGGAAGATCCTTCAAAGTGGGTGCTTGACACATATCCATGGAGCTCAGCACCTCGCCTCAGGAGAGCCCAGCCTTACTTCAGCTGCGACCAGAAGATGTTGGGTATGAAAG TPWEDPSKWVLDT

CCTTCCTTGCCCCATGGATGTAGAAGAAGGGTTCTAGAAGTATGGATCTCTGGAACTATTCTTTAGTACCTTATATTCTGGAGGCAGTGAGAGAGGGTCTTCAGATGTATGGGAAAACGL ${\tt L}$   ${\tt P}$   ${\tt C}$   ${\tt P}$   ${\tt M}$   ${\tt D}$   ${\tt V}$   ${\tt E}$   ${\tt G}$   ${\tt N}$   ${\tt V}$   ${\tt M}$   ${\tt F}$   ${\tt M}$   ${\tt D}$   ${\tt L}$   ${\tt M}$   ${\tt N}$   ${\tt Y}$   ${\tt S}$   ${\tt L}$   ${\tt V}$   ${\tt P}$   ${\tt Y}$   ${\tt I}$   ${\tt L}$   ${\tt E}$   ${\tt A}$   ${\tt V}$   ${\tt R}$   ${\tt E}$   ${\tt G}$   ${\tt L}$   ${\tt Q}$   ${\tt M}$   ${\tt Y}$   ${\tt G}$   ${\tt K}$   ${\tt R}$   ${\tt S}$ 

GAACATTCGCAATAATGACCTAGTCAAAAATTATAGATTGGATTGGATTCGAAGACGTGGCATCATCTCAACAGTTTTTTTGGAAAACACACGTTCTTCTGACGTTACCATTGGTCCCCGACTATT NIRNNDLVKIIDWIT

ACCAAATCTAGAGCTGCATCACAATTTCAGGTGGGTATTATGTGCAAATCATACAGAACCAGTGAAAAGGCTTTTTAGGCAGATATCTTCGAAGAAAACTCATAGAGATAGAAATTGAAAG ${\tt P}$  N L E L H H N F R W V L C A N H T E P V K G F L G R Y L R R K L I E I E I E R

5881

5761

5641

5521

7921

6121 6001 6841 6721 6481 6361 6241 6601 6961 7801 7321 7681 7201 7561 7441 7081 AAAGAAAGGTATTTTCACTAAACCACTGCCAGTATAAAAGCACCCTGTCAAGGGCCCTGACCCAGACTTGTGTGTCTCCAAGGGCCAGCAGAACTAAGTCTGAACCGCCAAGATGCTAAA ANGCTGCGACÄGCGAAAGGACCAGTCACCATGAAGACATTTTGGATTCATCTCTTGAATTCTÁACQCTQTAGAGGGTGAAAAAGTTTAAGGGAAAAGACTTTGCTTTTAAAAAAATGTTTCA S C D S E S T S H H E D I L D S S L E S T L \*  ${ t TTGAGCCTTTTCAGTGAAAGAAGGAACATTTCCTATGGTGCTGTCTCACTGCCTTAAAACAGATTTCTATGACAGTTTAACAGTTGGTTTAAATCCTAAACCATTGGTAATTTTCCACTG$ GTTTTATAAGGTTGTTTTTACCACAGTGGTCTTTTTAAAACCACCIGCCCACIICCCTTAACAAGAGTTTTATACCAATTATTAGTCAACACTGATAAAAGGCTTTTTTAGGGGCTTTATTIG AATGGAATTGTGCAACCACCAGAAAAACACTACTGTGGCAAACTGGAGAAGTGCCAATTTAATTCTAACTGCCACGTTCTCATGATGTGCTCCACCAACTTTTTAGTATATGAGTCACTG  $A \verb"TGGGATAGCCAAACTGGACT" \verb"TCT" \verb"TGT" \verb"TCT" \verb"TTAAAAG'T" \verb"TIACAATGCAGACCAT" \verb"TTT" \verb"TGTCCC" \verb"TTCCT" \verb"TTGT" \verb"TCCT" \verb"CTGAGGGGCT" \verb"GTCCCAGGCAGGGTCCATCT"$ TTGCAATGGAAGCTTAACTTTAGTTTATTTCTAAACATTTTTTATATCTGGAGTAATAGAAAGCTCCATTACTCAACTGGAAAGGACCCTAATGACAGGGCAACTGAACAGATTGCAC CTGTACATGAAGCCAATATATTTTTTGGATAAGTAAAACTGTCTGAAAGTACATCTGTCATGGCAGGCTTTAAAGAGAGTGCATGAAAAACTGATCAGTCATTGGAGAAGTTACCACCACAC AAGGCAGGAGATTTTGAATTATTATCCAGCAGGGCTGGAAGCACTAGATGCAGCATGAGCACAACTATTCGGCTTTCCCTTCCCTATTGTTTTTTGTTTTTTAATGAGTTTTTGACGCATGT TTGCAAACAAATACAGAATGCAAACCCTCAAAGCTGTATTATCTGGTGTGTTTTGTCCTGTATTTACAGTTGTTTTTGACTATGCAGGAGCTATCAGTGCTAGAGTGAGCATGCTTCAAAA TGTTTTGATTGCTATTGTTGTACATGAGAAATTCAGCATTAAAGAACACTGAAGCGGTAAGGTCACTGTGGAAGAGGGAAGCGTTTATACTGTAAAAAGAAGGTTAGATTTGCACAGTCTAC TGGGTAGGTATTGTAAATAATTTTTTAAAACTTGCACAAATCAAAACAAAACAAAACAAAACTGTATTTTTATCCTGTTGGTGTTAAGAGGTGTTTCACTTGCTGAGATTTCCTGTACA

Fig. 1 (cont'd)

8041 8161 8281 8401 8521

 ACCAATGGGTCAGTTGCTATAGAACAACAACACCACGAAACATCTGTGCAGTTTTCAGAGTGTCACAAAGTCAATAGGTCCTTACACGGTGCTATTGCCCTAAGGGAAATCCGAACTGAA ACAAAGGACAGGTTTTAAGTTTATGAAACCCAAGGGCTAGGCCATGGTATAGACTTCTTCTATGAGTGTGTGAAAAATGTGTTACTTTTAGGACGTGTATTTGGTGCTACTCTCTGTGACC

AAGAAAATTGCTAATCTTTCCCTGCCATTTTGAGAAACACAGTCCAAACATGAGCATAAACAGAATTTCCTGCAATACATCCCAGTAGGTCCACCTAGTTTACAACTTAAACTAGTTTGT

# Human genomic sequence

1	GATCAGACTT	TGAAGAGTG	TTGTACCATO	CTAAAGTTT	CAGAATTTAT
51	TCCTGCTCTT	TGAGGGTGC	A TTGCAAATCC	AGGCTAGAGC	GAGAGATACC
101	AGTTAGGAXA	GTACAGCAA?	R ACTCTACTGG	GAAATGGTG	GGTGTTTCGT
151	GAAGACAATG	GCAACACAG	TGAAGACATG	CAGATGGAGG	AAATAAAGAT
201	CCAGTTGAGC	TTGTTGGCC	GTTGGATAGA	GGTTGAGGTT	ATGCATGATG
251	GAGCAATCTA	GGTTTTTGTC	TTGGGTAGGT	GTTTCCATGA	TAGTACTCAG
301	AATGAATCAT	ATAGTTGTAC	AGGTTGAATC	CCACCCATGT	TTGCACAATA
351	GAGTGACTGT	CTAGCTGAAA	TCCAGATGAC	ACTCTGTATG	CTAAGCTATG
401	CTTCATGGAA	CTGTATAAAG	GCACTTGCTA	CATAGGCTAG	TGGCAGATCT
451	GGAAGTAACC	TATATGGTAT	ATAGGAAATG	AGGTGGCTTT	TGTATAAATC
501	CTACAGATAA	ATTTCATTTC	CTGATCCTAT	TATTTTGACT	CATGTTAGCC
551	CAAGAAGAGT	ATTCAGTACT	TCATATCCCT	GAAGGTAAGA	CAGAGTAGTA
601	TTAGATTCAC	TATTTGGCAA	ATAAAAGGGA	TCAAGTCCTA	AGATCAAGCT
651	GATGAATCAA	CACCTCATAG	GATATGTCCC	AACCAATTAT	ATGGCTTCCC
701	СТАТАААТАА	AATCTAGTTC	TCTTCTCTGG	AGAGGAACAG	TGAAGAATAT
751	CATAACCTAT	GCTACAAACT	GCTTGAGTAG	GAGCTACTTC	TCTCCAAGGC
801	TTTATATCAT	TCATTCTGGC	AGGCCCCTCT	GTTTGTTCTC	ACCAGCTCCT
851	GGGAAATTTA	TTTCTCCTCT	AGTGATATAA	AAGCTCTCTG	TTTGAGATGA
901	AGGGCTGCCC	AGTTTATCAG	ATCTGTATTA	GTCTGTTCTC	AGGCTGCTAA
951	TAAAGACATA	CCTGAGACTG	AGTAATTTAT	GAAGGAAAGA	GGTTTAATTG
1001	ACTCACAGTT	CCACATGGCT	GGGGAGGCCT	CACAATCATG	GCGAAAGACT
1051	AATAAGGAGC	AAAGTCACAT	CTTACATGGC	TGCAGACAAG	AGAGCATGTG
1101	CAGGGGAACT	GCTCTCCATA	AAACCATCAG	ATCTTGTGAG	ACTTGTTCAC
1151	TATTACAAGA	ACAACAGACA	GGAAAACCCG	CCCCTCAAT	TCAATTACCT
1201	GCCACTGGGA	CCCTCCCACA	ACACATGGGG	ATTATGAGAG	CTACAATTCA
1251	AGATGAGATT	TGGGTGGGGA	TACCGCCAAA	CCATATGAAG	TTCTTTCTTT
1301	GTTACTGGGT	ACCATATCCA	TTCTGTTGAG	GTTCTGAGCC	TTTCCAGTTA
1351	CTGTAACTCC	TCTATCTCCT	GTCTGTGCTA	AGACTCAGTG	ACCTCTCTCT
1401	GCCTTGCTTC				
1451	TTTGCCCACC	TGAGGTGAGA	GATGGTCCAG	ATTAGCAACA	ACAATCTGTG
1501	GACTAAAATC	CTCTTTAGGG	AGGAAGCAAA	ATTCAGATGG	ATGTTACTAA
1551	ACAAAGCTCA	GAAACAGAGA	CCAGGGTGTG	GGAAGTAAGG	TAGTAGCCTG
1601	AGAGCAGCTG	GCAGTGTTTT	AGACCTGGAG	GGAGGTTAGG	TCATCAGCAA
1651	TGAGGAGACT	GCCTGGAAAA	TCCTAGÁAAA	TTAAGACATC	TGGTCAGGCA
1701	AGGTCATATC	ACCAGCACAC	TTCCCTTTTC	AAGTTGAATC	CCTTTCCTCT

1751	GTTAAGAGGA	TTCAAGTGTC	TTTCTTGCAT	TTTGTCTTCT	CTTCTATATC
1801	CATGCTTGCA	ATATAAGGAG	ACAGCAGTTG	GCTGTTTGTG	CTAGAAAATA
1851	TAAATGGCCA	TTTTGAAAGC	ATGCCAGACA	GGATCTGCGG	CAAGTTTTCA
1901	ATGTTACTGC	TGCCATCTGT	TGTTCTTCAG	TGCTGGGATG	TGAATCTCTT
1951	GGCAAACATC	TCTCTAATTC	TGAACTATCT	TTCACCCCCA	TCTAGAGATA
2001	TTCACTTACT	GAAGTGCCTT	TTTAAAGCAA	TGTTCCTCAC	CAAGGCGATG
2051	TTCTGAATGT	TTTAAAATGG	AAGAATCTGG	AATGTTTTA	ТТАТААТАСА
2101	TTTTGTATAT	CCCAAAGCAA	AAATCAATTT	CTTCATGGTT	AATACTTTTG
2151	TAATTTTGTT	ТТТААТААТА	TTTTCCTTTT	AAATATAAGA	AATATTTTAT
2201	TGAATTAATA	CTTTAATGTA	GCTGTTTCAA	GTAAGATAAA	ACAGAACAGA
2251	TTACTGTTTT	CAACCTTGTT	CACAGTTAGC	TCTGTAACTA	AGTTGTTGAG
2301	CTTTATCTAA	GCTTTTTTAT	TTTTACATAA	CGTTTCCCTT	TTCACTTAAC
2351	CTTGAAATTA	TAGTAATTTG	GGAACTTCTA	TTCCTCTGAA	AGAGAAAGCT
2401	AATGCCAAAG	ATATTTCAAG	GGAGAAAGAA	GGTTTTTAAA	AGGAGAGACA
2451	ATTCAGCTCA	GACTTAATAG	CTGTGATTGC	TATTTATTAA	GCAGAACGCC
2501	ТАТААСТААА	TTCTCAGATA	TCCAAAAAAC	AGCCTGTACA	TTCTCAAAAG
2551	TGAAGATTAC	ACATTTTCTA	AGTTAAGGTA	AAAGTTTTGT	CTCTGTAGCA
2601	TCTTACTGAT	TTCTATCTTC	TCATTCTGCC	TTAATAATGT	САСТАААТАА
2651	ATGTTTGATG	CACTAATACA	TGAATAAAAC	TATTCATGGT	AATGATTCTT
2701	TAGAAACACA	GCTAAGTTTT	GTAATTTTGT	TTTTTAAAAA	TTAAAAATTT
2751	AAATATAAAA	ATGTTTTTAA	AAGGCTTGAA	TTTCTTGTTA	AATGTACACA
2801	TTTTAAGTTG	TAGGCTGTCT	TTAAAAATAA	TCTCTCCACA	CACTGTAGTA
2851	TTTAAAACAT	CATGATATTA	CTATAAAACA	TCAACAAATA	GGGCAGTGGA
2901	AAACATGGTA	ATCACTAAAA	ATGCTCACAT	GTCATATATT	AAGACTTGAT
2951	AAGTAAACCA	СААТААТААА	TAGAAAAGAA	ATAGTTGTCT	AAAAAGGGAT
3001	TCTCACCTTT	CAAACCTTAC	CATAAAAATG	GAATATAAAA	GAAGGAAGAG
3051	GAGGAGAAAT	CAAATTATAT	CATAAAATTT	TCTGGGCAAA	AATATTACAG
3101	AAGAAAATAA	GAAAGATTTA	TGGAGTTGAC	TGAAACATTT	TTGAATCCTA
3151	TACATAAAAA	TATCGTTAAT	TAAAAGGAAA	AACAAAGAAA	CAGATTTGGG
3201	AAATATTTGA	AACTGGTTTT	TTTTTAGCAT	TTAAAAATGT	AATACAAATG
3251	GATTATTTAA	ACTCCATTGC	AAAAATACAC	AAAGGACATT	GACAATGTCT
3301	GGAAATAAAA	TTAGCTAAGT	AAGTTATAGA	AAAACTCAGT	CTCACAATTT
3351	GACAAATGTA	ACTGAAAACT	ATTAATATAA	TTAGTAACTA	TTTTTACATG
3401	TCAAAATTTT	TGAATTACTA	AAGGAAACCA	CAATGCCTGA	AAGTATCCAG
3451	GGTTTTTTTT	TTTTTTTATA	ATATTGGCAC	TGTCATATGG	GTGGCAGGAA

Fig. 2 (cont'd 1)

3501	TTGAAGTGAT	GTTGTTTCTT	CAGTTATTAA	GTTGCATCTG	CAGTGTTTCA
3551	AATGTCCAAA	ACCTGTGAGT	CAGTAATTCT	CTTTTTGTAT	ATTTATCCTA
3601	ATACAATAAT	TCTAAACATA	ATCTCAATAT	ATATGTACAA	AGTTATTCAC
3651	TGCAGTGTTA	CTTACAATAG	TTAGAAAATT	GTAAAATGCT	TTATGCATCT
3701	TAAAATATAA	ATTGTTGAAT	ATATAATAGT	CCATATGATA	TAATTATATC
37.51	АТТАТТАТАА	ATAATGAATT	AGAAAATAAT	TTAAGAGCAT	TAAAATAATT
3801	ATAAGGTAAT	ATGAAGTGAA	TGAATAATGT	ACAGATACTA	TAATCAGCAG
3851	AGTGTTAACT	AGGTAAATTT	TTATGTGTGT	ATATACTACT	ТССТАААААТ
3901	GACTTGACAG	AAATCATCAA	AATGCTAATG	GTGGTTACTT	CTGGGTGGGA
3951	ATACAGATGA	TTTACTTTGT	TCCTTTTATG	TATTTCTGCA	CTGCCCAGTC
4001	TTCCACAGTG	AGCATATATT	GGTTTTTAAA	TTTATATAAG	ATGGAAAAAG
4051	ATACCAAATG	GTCTTCAATG	AATCCTGGAG	TTAACTTTCA	TGTGTGTCAT
4101	ATGTTATATT	CTAAACTTAT	CACAAATAGA	AGACTTTAAA	TCAACTTGTA
4151	CCTATTTCAA	СТАТАТААСА	GCATCTTTAA	AATGAGCATT	GAATTAAACT
4201	ACCAAAACCA	ACCATCATGA	GGATTATTCA	AGTAATGTGT	ТТАААСАААА
4251	GAATTTGTAA	TAAAATTACT	TTATCTCCTT	TGTGATTTCA	GCCCATTTAA
4301	AAAAAATAGA	TGTTTCTACT	CTCCTTCAGA	TATCATTAAA	ACATAAACTT
4351	GTGCCTGACT	GCATAAATCC	CTTTTAAACT	AATATCACTT	ATTACGTTTA
4401	ACTAAGTCTA	CCTAGGGCTT	CCTTGTATAA	AGAACAAGAG	CTTTCCATTT
4451	TTTGTTTACC	TAGCCCTTTC	TGATGCCACG	ACAGAATAGC	TGTAAATCTT
4501	CATTATTTAT	ATTCTAGAGA	AAATAAAAGC	AAATAAAAAG	GTCAGTGTAT
4551	AAAGTTTATT	GGTTGTTCTC	TTTACTCAAA	ACCCACATGG	TATTAATGTT
4601	AGTCTCTATG	AATATTTCAT	GGATAAAATC	AGAGCATTAA	GTGCATACTA
4651	AAAACAATAA	GAATGGAAAG	ACTTTAACCT	TATGTTTATA	TGAATTTCTA
4701	GGTTATCAAG	AAGTTTATAG	GCTATAGGCT	ATAAAGTCTT	AGGCTATGAT
4751	ATAGTAACCT	AATGTAGACT	TCCCTTGATA	CATGAAAATA	ATGGTACTAA
4801	GTACAAACAG	AAGATGAGCT	TAAAATTATT	CTTTGAGTCC	TCTTGATGGA
4851	TTTTTTCCCC	CACACTTTCC	CCAAAATTGT	TTTATGCCTA	TATTGTAGGA
4901	GACCATGCAA	GAGACCTAGA	GTCTCTTTTT	CTTTCATCAC	TTTCCAATCA
4951	ACAGCAAATC	CTATCATTTT	TACCACAAAA	TATATCTTGA	AACTCCCTTC
5001	TTTTGATTTA	CTTGTAACTC	CCCATCAAAA	ACTGAAGAGT	GTCACAATAC
5051	TTCATTAAGT	TCCCTACTTG	CACTCTACCT	ттаатататт	TGTAGCACTA
5101	AAATGTTTTT	AAAACATATA	TCTGCTTATG	TCATTTTACT	GCTCAATACT
5151	ATCTGATTTT	CTATTGCACT	TCTAAGATAC	TCTAATTTCT	TAGCACTCTA
5201	татаааатсс	TTTAAGGGCT	TCCCTGCTCA	CCTTTTCAGA	CTCAGAACTA
5251	TGTATTTCCT	TTTGCCTGCT	GTACTTGTAC	CACTGGATTC	TTGATTTTTG

Fig. 2 (cont'd 2)

5301	TTACTTCCAC	G GTTTTTACAC	TTATTTTTAC	AATAAATGTO	AAATACCCTT
5351	TTTGACAATA	TCTACAAATA	TTTCTTATTI	GTCTTTATTC	CTCTTTCCTG
5401	TAATGTTTAG	TCTTCATTTT	CCTGATAATG	GCTATCTAAA	GTTATCTCCT
5451	CAAAGAAGCA	GTTATTTATT	CACCCAAATC	TTCTAGTCCT	TCTCTGGAGT
5501	TTTCTTCTCA	CTTCATTCCC	TTGGTTTTTG	CCACAATTTG	TAATAATTTG
5551	CAATTTGGAG	G TGTTAGAATG	AGGGAATAAA	TCACAGGTAA	TGACTATAGT
5601	TTGTGACTAT	GTAAGATTGG	ATTCGTTATT	GATTTATTCC	ACAAACACTG
5651	AGGCACTGCA	TTTAGCCAAA	TGCCAATCTT	GGGCAGTGAG	ACTCTGAAAG
5701	AGAATCTGCT	TCCCCCACCA	ТАААСТАСАА	AGTGAAACAA	CTCAGAATGT
5751	ACATAAATTA	CAGAATGAAA	GCACACTAGA	AGTAAACACA	GATGTGGAAG
5801	AGGTAAAGTG	TCCTTGAAAA	TCATGGAAAG	ATTCATAAAG	GGAATGACAT
5851	TTCAACTGGA	TTCTAAACCA	GTTATTCAAG	CTCCACAAGG	TTGCACAGTA
5901	AATGAGCAGT	GGCAGGATGA	CATACCTTAG	AAAGTAAAAG	GAATCTTTTT
5951	TAAACTGCTA	TAAAAATCAT	TACATATACA	TTTTGTAGGT	CGAGAGTAAG
6001	GTATTTAÀCA	TAAAATCATT	TTAGTATATC	AGTGTTTATA	TAGACTTAGG
6051	TTTTTCTCAT	ТТААААССТС	TTTTAATGAC	TTGTGCTTTT	CTTCATGGTA
6101	ATAAAACATT	TTCCCAGGAA	GTGCTGAATA	AATCTTTCTT	GAAATACGTT
6151	TTATTGCTTT	CTATCAATGA	CCCTGAAGTA	ATACAGAATT	TACACTTCAG
6201	CGGTTGCAAT	GCTCAAACTT	GACAGGTAAT	GCACTGTGTT	TGCTGATATA
6251	AGAGGTATGA	TGTAGGGCTA	AGTGGTTTTG	TGCTCATTTA	GCTTTCAGGA
6301	GAAAATAATT	GACTTAACAT	TTTGATACTA	AAACCCAAAG	CCTAACAGTT
6351	AATTCTTGGT	ATTTTAAATT	ATTATTGCAA	AGATTATTGT	GCCGAATAAT
6401	ATGAAAATAT	TTTATATAAT	ATTTAAAAAG	TATATCTCTT	TCTTGGTATT
6451	ATTTAAATTA	ССАТАААААТ	GTGCGAAAAA	GTTATACTGA	AATGTGATAG
6501	GATCTTTTAA	AAGTGGTGCC	TTGATTTTGT	TAAGTGTTAC	CTAGTTTTCC
6551	TCTGAAAACA	AGAAACATAC	CCAGAAGTTT	TCACGAAATG	GTCTCATGAA
6601	TATCTAAGGT	TAGTCCGTAG	TCTCATCTGA	GACAAGGAAA	GTCCCTTCCA
6651	CTATGAGCCT	GTAAAATCAC	AAGCAAGCTA	GTTACTTCCT	AGATACAATG
6701	GGAGTACTGG	TATTGGGTAA	ACACAGCTGT	TTCAAATGGG	AGAAATTGGC
6751	CAAAATTAAT	GGGTTACAGG	GCATGCAATT	CCGAAATCCA	TCTGGGCAGT
6801	CAAATTGTAA	AACTCCAAAA	TGATXTCTTT	TGACTCCATG	TXTCACATCC
6851	AGGACATGCT	GAXGCAAGAG	ATAGGTTCCC	ATAATCTTTG	GCAGCTCTGC
6901	CCCTGTGGCT	TTGCAGGGTA	TATCACCCCT	CCCAGCTGCT	TTCACAGGCT
6951	GGCATTGAGT	GTCTGTGGCT	TTCCCAGGAA	CAAGGTGCAA	GCTGTTGGTG
7001	GATCTACCAT	TCTGGGGTTT	GGAGGATGAT	GGCCCTCTTC	TCATAGCTCC

7051	ACTAGGCCGT	GCTCCAGTAG	AGACTCTGTG	GGGGCTCTGA	CCCCAGATTT
7101	CCCTCCTGCA	CTGCCCTAGC	AGAGATTCTT	CATGAGGGCC	GTGCCCCTGC
7151	AGAAAACTCT	TTCCTGGGCA	TCCAGGCATT	TCCATACATC	TGAAATCTAG
7201	GTGGAGGTTC	CCAAACCTCG	ATTCTTAATT	TCTGTGCACC	TGCAGGCTCT
7251	CTACCACGTG	GAAGCTGCCA	AGGTTTGGGG	CTTGCACCCT	CTGAAACCAC
73,01	AGGCTGAGCT	ATACCTTGGC	CCCTTTTAGC	AATGGCTGGA	GTGACTGGGA
7351	CACAGGGCAC	CAAGTCTCTA	GGCTGCACAC	AGTATGGGCA	CCCTGGGCCC
7401	AGCCCTCAAA	ATCATTTTT	CCTCCTAGGC	TTCTGGATCA	GTGAAGGGTG
7451	GGGCTGCCAT	GAAGACCTAT	GACATGCCCT	GGAGACATTT	TCCCCATTGT
7501	CTTGGGGATT	AACACTGGCT	CCTTGTTACT	TATGCAGATT	TCTGCAGCCA
7551	GCTGAATTTC	TCCTCAAAAA	ATGGGTTTTT	CTTTTCTACT	GCATTGTCAG
7601	GCTGCAAATT	TTCTGAACTT	TTATGCTGTT	TCCCTTTTAA	AATGCGATGC
7651	TCTAACAACA	CCCGTCACCT	CTTGAATGCT	TTGCTGCTTA	GAAATTTCTT
7701	CTGTCAGATA	CCCTAAATCA	TCTCTCTCAA	GTTCAGAGTT	CCACAAATCT
7751	CTAGGGCAGG	GGCAAAATGC	CACCAGTCTC	TTTGCTAAAA	CATAACAAGA
7801	GTCGCCTTTG	CTCCAGTTCT	CAGCAAGTTC	CTCATCTCCA	TCCGAGACAA
7851	CCTCAGCCTG	GTCCTTATTG	TTTATATCAC	TATAAAAATT	TTTGTCAAAG
7901	CCATTCAACA	AGTCTCTACT	CCAAACTTTC	CCACATTTTC	CTGTCTTCTT
7951	CTGAGCCCTC	CAAATTGTTC	CAGCCTCTGC	CTGATACACA	GTCCCAAAGT
8001	TACTTCCACA	TTTTTGGATA	TCTTTTCAGC	AATGCCCCGC	TCTACTGGTA
8051	CCAACTTACT	TTGTTAGTCC	GTTTTCACAC	TGTTGATAAA	GACATACCCA
8101	AGACTGGAAA	GAAAAAAAGG	TTTAATTGGA	CTTACAGTTC	CACATGGCTA
8151	GGGAGGCTTC	ACAATCATGG	CAGGAGGCAA	AAGGCATTTC	TTACATGATG
8201	GCAGCAAGAG	AAAATGAGGA	AGATGCAAAC	GCAGAAATCC	CTGATAAAAC
8251	CATCGGACCT	TGTAAGACTT	ATTCACTACC	ACTAGGACAG	TATGGGTGAT
8301	ACCACCCCA	TGATTCAAAT	GATCTCCAAC	CAGGTGCCTC	CCACAACACA
8351	TGGGAATTAT	GGGAATACAA	TTCAAGATGA	GATTTGGGTA	GGGACACAGA
8401	GCCAAACTAT	ATCACATGGA	TTTCTTATAC	TTTTGCTTTT	AATAACACAA
8451	АСААААААТ	ACATCATTAA	AAGGTTAGAA	GTGAGAAGGT	GTTTTTATGG
8501	АААТСААААА	TAATATCACC	TTAGTGAACA	GTATTCTTAT	GATTGTAGTT
8551	GAATTAGAGA	GCAGAATACA	TCTAGAAGAT	TCAGTAGTAA	GCATGTTTCT
8601	TCGATTAATG	GAAAATTTGA	ATAGCCTAGC	TGATTGAGAT	TGAGGTTACT
8651	ATTAAATGCC	TGAAGTATAA	GAGTTGGTTG	TTTATGTAAA	CAAAATATCT
8701	GTTTTACATG	TACATGTGTA	AGTAGGACTG	TTGAGCCCCA	GTAACATGAA
8751	ATATCAAAGA	GCATGACTCG	AATACCTGCC	ATATGAAGTG	CTATTACATC
8801	AAAAAAGAGG	CGTGTGCTGA	AAAATTACCT	ACAAATGGCA	TTTTCCTCAA

8853	ATCAATTTA AATCTTCAGA ATTTCATTTT AATAATTGTT TAGTTAATAT
8901	TTCAGAATCC CTCATCATAA AAAGCAGGCA AAAGGCAAAA GTCCTTGAAT
8951	GTATAACACA TTTGTTTTCA AACAAGCCTG CCTCTAACTG TGAATCCAGG
9001	AGTGAATCCA GAACTACAAA TTAACTAAGA TTGGCCCCAT CGAGTTACTG
9051	AACGTTAAAA ATCTAAAAAC TAAAAGGCAT GCCTCAACAA TTATTTTCTT
9101	CTTGGAATCA TTAATTAACC TATGTGTATC CAAACAATAA TCTTCCAGCA
9151	GTTTCGCTAG CTACATTTTT AATTACTTAA TATCATGTAA AATTTGTTTT
9201	ATTATTGTTC AGTTCTGAAT TTTGACATAT GCATCAAGCC ATGCAACTGC
9251	TACCACAGTC TTCCTGATCA CTGATCTGTT CTAAATCTCT ATAGCATTTT
9301	TCCTTTTCTT AAATGTTGCA TAAATAAAAC CATACCTTAT GTGGCCTTTT
9351	GAATCTGGCA TCTTTAACTT AATGCGCTTG AAATTAATCT ATGTCATTTC
9401	ATGTATCAAT GGCTCAATCT TTTTAATTGT TAAGAAAAAA TGTATGCTGG
9451	GATAAATATC TTTCTAAATG AGTTTTTGTT CACAATGCTG AGTGTTTGTT
9501	TAGGATAGAG TCCTAGAAAT GGTATCACTA GGTCAAACAT TCAAATAATT
9551	TTAAAATÄTT TGATACATAT TGCCAAATAA TCTCAAATTT TTTACCAATA
9601	TACATTTATG ACAGTATGGG ATAAATGTGT CTTTCTTATA CCAACTGACA
9651	THE THE TENENCE THE TENENCE TO THE T
9701	ATGTTATATC CTTATTAGCA TTTTATTATT GTGGTTGAAT GACTGTACTG
9751	TACAGCCAGA GATATTTGGT TCAAAATCCA TCTTCATTAT TTACTGTATG
9801	TGAAAATTTA GGTGAGCTAT TTAATCTCTT GATGCCTTAG TCTCCTAATC
9851	TATAAAGTGG GGATAATTGT ACCAATCATA TTAGGTTCCT GTGAGAATTA
9901	ACTGAATTAC TATAGAAAAT GCTTAGAATG GTATCTAGTC ACCAGGAAGG
9951	ACTCTCTCTG TATTACTTGT TTATTATCTA ACACGTTTAA TTATTAATGA
10001	AGCTCAGTTT CGTTATATGC TTGGGATATT TGAAACTTTT CTTAGTGAAT
10051	TTTCCAATAA AATTATTTGT CTATTTTTCT ATGGACAAGT TGGTATTATT
10101	CTTACTGGTT TGTTTCAGGT TCAGTTAGTA AGAATTTTAA GGATTTTCTA
	TCACATTTTA GCAAACTTTT TCTGCATTTT ATCTTTTTTC TTTCAGATAA
10201	TGTTTGCAAA ATGTAAAAAA AACAAAAGGT TTCTTCATCA AGTTGGTATC
	TTTATCTTTT TTATTGCTTT GTGATTTGAA AATTCTTGTC CTGAGAACCA
10301	AAATATATAT TTGATGAAAT AGTTCTCTTC TTTTACTCAT TCTGAAGTCA
10351	TATTET TATES
10401	TATTCAAAAT TTCTAACAAA TATTTACTTA ATAATCTAAT CCAGGTTTCT
	ATTGTTTCTT CTGTTTCCTT TATAATGCTT TTTCTGAAGT TATTTTTCCT
10501	AGACTTAAAT ATTAGTATAA TATTATCATA GAGGAAAAAA TATCTGTTAG
10551	CTATGAATAA AAGGCTTTCA TCTTATTGTT GCATTAATAT ATTTAAATGT

10601	AGAGAGCATA	A CAGATTAGC.	A AAGAAAAG	r ataattgcc	T TTTTTTATAG
10651	TTGACATGA	A CATGTATAA	A GAAAAACCA	A AAAAATCAA	Г ААААСААСТА
10701	GAACTTATT	A GTGAATTTA	G CAAGATCATA	A GCATACAAA	G CCAAGATTCA
10751	AAATTCCATT	r TTATTTATC	г астаасааа	A AATATTTGA	A ATTTGAAAAT
10801	TTAAATATG	CATTTACAA	r aacatcaaa	A TATTGAACA	A TAAAGTATTT
10851	AGGAATTTAT	AAAATGAAA	CTCCTATACO	AGGAATTAC	A GACCATTGCT
10901	GAAATAAATO	AAAGAAGAC	AATATATGTG	AAGAGATAC	r catttgtgga
10951	TTGAGAGACA	ATATTGTTA	AGTATCAGTA	TTTCCCAAAT	TAATCAATAG
11001	ATTCAATATA	ATGGTGAACA	GAACACCAGA	AGATGTTCTC	TCGAAGCTGA
11051	CAAGCTATTT	CTATAATTC	AATGGAAATG	CAAAAGGCAG	TCACTGCCAA
11101	CACCAGCATO	GACTGTCTGG	GTTCCAGTAG	GTTACTTCAC	TACTGCCTCT
11151	TCTGTCAGCC	ACATCACGAC	AGCTGCCCAG	AAGCCAGAGA	AACTCCTCAC
11201	ACCTGGCCCA	CTGCTGCAGC	TACCAGCATC	CAGGCAAGCC	ACCATCAGCC
11251	CACTGGTAAC	TGCCAACAGA	GGTACCACTG	TACACTACCC	TGGGGAACAA
11301	AGATAGGÇAT	GTAGTCAGCC	CACCTCTGCC	ACCACTAGGG	CCTGAAGCCT
11351	GGCCCACCTG	ACACTGCAGT	CCTCAGCACA	GCTTCATCAC	AGCTTCTGTT
11401	AATAACCACA	CCCTAACCTA	CCAAGGAAAT	CACAAATGTC	ACTGACACTG
11451	TTTGTAGCCA	AAGAAATCAT	AGAGAGACTA	CATTACTGCA	CACACCCATA
11501	ATCAAAGCCA	CAGTACCCTA	TCCAGACAAC	ATCACAGGTA	TATCTAAAGG
11551	AAAAAATTTT	CCCATATGAA	AGCGAATTCA	AATATAGGAA	GAAGCGACTG
11601	TTACAACAGA	TATGCAGATA	AAGCTTCAAC	AATATCCTAC	ATTCAACCAG
11651	AAGAAAGAAT	CTCAGAAGGT	AAAGACAGGT	CTTCTGAAAT	AATCTAGTCA
11701	GACAAAATTA	AAAGAGAATA	ATCAAATCCT	TCCTGACATT	TGGGATAACA
11751	TTAAAGTGAC	CAAATATACG	AATTATAGAT	ACCCCTGAGA	GTGAAAAGAC
11801	AAAGAAAAGA	TTAGAAAACC	CACTTAATTA	AATAATATAT	GAAAACTTCC
11851	TAAGTCTAGC	AAGAGTTTTA	GATATTTGGG	ATGCAGGAGG	CTCAATGGTC
11901 -	CCCAGGCCGA	TAAAACGCAA	AAAGGTCTTA	TACACAGCAC	ATTACAATCA
11951	GACTGTTTAA	AGTCAAAGAT	AAGGAATAAA	TTCTAAAAAC	AGCAAGAGAA
12001	AGTGTATGAT	AACCTATGAA	GTAAACCTTA	TCAGACTGAC	AGCAAATTTC
12051	TGGCAGAAAC	TTTACAGGCC	AGAAAGAATA	GGACAATATA	TTCAAAGTGC
12101	TTAAAGAAAA	AAAAAACTAT	CAGCCTTAAA	TACTATAGCC	CACAAAATTA
12151	TCCTTCATAA	ATGAAGGAGA	AATAAAAGGT	TTCCCAGACA	CGAAAATGCT
12201	GAGGTAGTTT	GTTACTACTA	GACTGGACCT	ACAATAAATG	CTCAAGGGAG
12251	GTCTGGAAAC	TGGTAGTGAA	AGGACGACAT	TTATCATCAT	GAAAATACAT
12301	GAAAGTATAA	AACTCCCTGG	TAAGCAACTA	AAGGGAGGTA	TCAAATGTTA
12351	CCACCAGAGA	AATCTAACTA	ACCACAATGA	CAAACAATAA	GGGAAAAAGA

12401	AAGGAACAAA AATATATAAG ACAACAAATA AACAACAATA TAACAGGAAG
12451	CCTCACATAT CAGTAATCAC TTTGAATGTA AATGAATTAC ATTCTCCACC
12501	TAAACGTTAT GAAATGCCTG AATGATAAAA CTATATGATC CAAATATATG
12551	CTGATTACAA GAAACTTACC AGGCAGACAT ACATAGGCTG AAAGTAAAAG
12601	AATGGTAAAA GATATTCCTT GCAAATGGAA AGCAATAGTG AGCAGGAGTA
12651	GCTATACTTA AATTAGATCA TACAGACTTT AAGTCAAAAA GAGTAAAATA
12701	AAAAAGACAA AGGATGTTAT TATATAATGA TGAGATTAAC CCAGCAATGG
12751	GAAATAACAA CTCTAAATGT ATATGCATTC AACACTAGAG AACTCAGATC
12801	CACAAAGCAA ATATTAGACC TAAAGAGAGA AATAGACTGC AATACAGTAA
12851	TAGTGGAGAA CTTCAACACT CCACTTTCAG TATTAGACAG ATAATCTAGG
12901	CAAAAAATCA ACCAGTAAAT TTTAGATTTA AACTAGATTT TAGACCAAAT
12951	GGACCTAACA GACATTTACA AAACATTCCA TCCAACCACT GCAAAATGAA
13001	ATTTGTGTCA TCAGCACATG AAACAATGTC CAAGATAGAC CACCATATGT
13051	TAGGCCACAA ATCATGTCTC AGCAATTTTT TAAAAGTTGA AATCATATCA
13101	CATATCTTCT CAGACCACTG TTGAATAATG CTAGAAATCA ATGCCAAGAA
13151	TAACGTTGGA AACTATACAA ATACATGCAG ATTAAACAAC ATGTTCCTGG
13201	TTGATCACTG GGACAATAAG GAAATTAAGC TGAAAATCAA AAAATTCTTG
13251	TAACAAATAA AGATTGAAAC ATAACATATC AAAACCAGTG GCATACAGCA
13301	AAAGCAGTGC TAAGAGGGAA GTTTATAGCA ATAAATGCTT ACACTGAAAA
13351	AGTAGAAATA TTTTAAAATT AGCAACCTAA CAATGTGCCT GAAGAAACTA
13401	AAAAATCAAG AACAAATCAA ACCCAAAATC AGCAGAAGAA ACACAAAAAT
13451	AAAGATCAGA AAAGAACTAA ATCAAATAGA GACTAAAAAA ATACAAATGA
13501	TTAACAAAAC TAAAATTTGG TTATTCAACA AGATAAATAA AATTGATAAA
13551	CCGCTAGATA GACTAAACAA GGAAAAAGAA TATCCAAATA AACACAATCA
13601	AAAACGATAA AGGAGACATT ACAACAGATG CCACAGAAAT AAAAAGGATC
13651	ATCAGAGACT ATTATTAACA ACTATATGCT GAAAAATGGA AAATATAGAG
13701	AAATAGATAA ATTCCTAGAA ACTTACAACC TACCAAGCTG TTGCATCAGG
13751	AAGAAATAGA AAACCTGAAC ATATCAGTAA TGATTAGCAA AATTGAATCA
13801	GTAATAAAA ACATCTCCCA ACTCTTTTAA AGCTTTGGAC CAAATAGCAT
13851	CACAGCCTAA TTCTACCAAT CATGCAAAGA AGAATACCAG TCTTCTTGAT
13901	GCTATTACAA TAAATCAGAG GAAGGAATTC TCTCTGGCTC ATTCTACATG
13951	ACCAGTGTCA CCTTGAAACC AAAACCTGAC AAGGACACCA CAAAAAGAAA
14001	ACTACAGGCC AATAACCATG ATGAACACA ATGCAAAAAT CATTAACAAA
14051	ATACTGGCAA ACGGAATCCA ACAGCACATC AAAAAAATAA TATACCACAA
14101	TCCAGAGGGT TTGTATCAAG GATACAAGTA TGACTCAATG TAAATAAATC
	F: - 2

Fig. 2 (cont'd 7)

14151	AATAAACATG	ATAAGCATC'	T TCACAGAAT	A TAAGACAAA	r gaatatatga
14201	TCATCTCAAT	AGATGCAGA	TTTTAAAAA A	GATAAATTT	C AACATCTCTT
14251	CATGAAAAAA	ATCTCTAAA	A CTCAGCATAC	AAGAAACAT	А ССТСААТАТА
14301	ATAAAGGCCA	TATGTGACA	A ACTCAGAGCT	AATATCATA	C AGAATGGGGC
14351	AAAGTTTAAA	GACTTTCCT	TAAGAACTG	AACAAGACA	GGATGCAAAC
14401	TCTCACCACT	CCTATCCACA	A TAGTACTAGA	AGTCCTAGC	AAAACAATCA
14451	GACAAGCAAA	AGAAATAAAA	A AGTATCTAAA	TTGAGAAGAG	CAAGTAACAT
14501	TGTTCCTCTT	TGCTGATGAT	ATGGTTTTGT	ATCTGGAAAA	TACTAAAAAC
14551	TCCAGCAAAA	ACCTCTTAGA	TTTGATTAAT	' TAATTTAGTA	AAGTTTCAGG
14601	ATACAAAATA	AAAATACAAA	AGTCAGTAGC	ATTTCTATGO	CCCAATAATA
14651	AAATAGCTAG	GAAAGAAATC	AAGAAAGTGA	TCCCATTTAA	ATTAGCTACA
14701	AAAAATTAAA	ATACCTGGGA	ATAAATCAAG	GAAGTTAAAG	ATCTCTGCAC
14751	AAAACTACAA	AACACTGATG	AAAGAAATTA	AGGATTAAAC	AAACAAATTG
14801	AGAAACATCC	CATGTTTATG	GATCAAAAGA	ATTAATATCA	TTAAAATGAC
14851	CATACTTCCC	AAAGCAATTT	CCACATTCAA	TGCAATTTCT	ACCAAATTAC
14901	CAATGTCATA	TTTCATAGAA	TTAGAATAAT	ССТААААТТА	GTATGGAATG
14951	AGAACAGAGC	CCAAATAGCC	AAAGCAATTC	TGAACATAAA	GAACAAATCT
15001	GGTCCTGACT	TAATCACTAT	GCAATCTATG	CATGTAACAA	AATTGAACAT
15051	GGATTTTATC	AATTTGTACA	AATAAAAAA	TGTAAAAAAA	GAACAAAGCT
15101			CAGCATGGTA		
15151	AATAGAAAGC				
15201	TGTGTATACA				
15251	ACATGTTCTA .				
15301	ATATAGGTTA				
15351	TCCTGTGATT				
15401	GAAATAATCT				
15451 -	TGGGAGCTAA				
15501	GGAAACAGAG 2				
15551	GAAGAGAGTT A				
15601	CTTGATAGCA (				
15651	GTGATGAACA (				
15701	AAATCACTAT (				
15751	ТААТАААТА (				
15801	ATAGGCATTA A				
5851	TGCCATATAG A				
5901	CTATCAAAAC 1	TATAATAT	TAAGACAACC	СААТАААААТ	GTGGTCAAAG

15951	GATTTGAACA	TACATGTCAC	САААААТАТ	ATTCAAATTT	ССААТАААТА
16001	CATGTAACAA	TGTTCGACAT	CGTTAGTCAT	CAGAGAAATA	СААААТАААА
16051	TGGTAATGAG	ATACTACTAG	ATAGGCTTTT	ACAGAGACTG	ACAATACCAA
16101	GTATTGACAA	GGATATGGAG	CAACTGAAAT	TCTCATTCCT	TGTGGTAAGA
16151	ATGTACAATT	ATATAACCAC	ATTGAAAAAA	CAAGTTTTCA	GTTTCTTTAT
16201	TCACCCAAAA	TATATGTCTT	TTGGAAAAA	TTTTTTCCAG	TCTGTGGGTT
16251	GTCTTCTCAT	TCTCTTGATA	TATGTCTTTT	CAAAGAGGCT	GAGCTTTACT
16301	TTAGACAGTG	GTCATCAAAG	TGTGTATATT	TGTGTTTTTA	TATTTTATAT
16351	GCATATATTC	CTGTGAAAAG	ATACTGTATG	CATTGTTCAA	CATGTACAAA
16401	TATAAGAAAG	ATATAGTAAA	GAAATATATA	TTTCTAAATT	TATAAATGTA
16451	TTTATTGGTG	TTCCACGTTG	САААСТАААТ	AATCTACGTT	GGCTAATTTA
16501	AGGAATTAAA	CTATAGTAGA	AGGTTCTCAT	TTATTGGGAT	GATTAGAACC
16551	AGCCTTTTTG	CAGGCTATTA	GCGAATCATA	GCACTAGGGC	TTCACTGCTA
16601	CCTCCACTGA	CACCTCTGAC	ACTTGAAACT	TGAGGCCAGA	TATCTGCCCA
16651	TGCTGAŤAGA	AAACAACTGA	ATAATTTAAT	TTGCTAGATA	ATAGAAAAGA
16701	ATCAAATGAC	TCTGCCACAT	TGCTTGCCAG	AAGATTGTTT	TTCTCATTTG
16751	TGACCTCTTG	CCTATAAATG	ATAGATAGTC	CCTGTGCTGC	ATGCTATAGG
16801	TGTTCGTAAG	AGAGTCTGGG	AATGTGAGCT	TTTTATATCC	TATTTTTGGG
16851	TGGTAAAGGT	CATTCTATTA	GTCTGTTCTT	AAACTGCTAA	TGAAGACATA
16901	CCCCAAATTG	GGTACTTTAT	GAAAGAAAGA	GGTTTAATTG	ACTCACAGTT
16951	CAACATGACT	GGGGAGGCCT	AAGGAAAGTT	ATAATCATGG	GGGAAGGGGA
17001	AGCACACATG	TCCTTCACAT	GGTAGCAGGA	AGGATAATGA	GTAAAAGGGG
17051	GAAAAGCCCC	ттатааааст	ATCAAATCCC	ATGAGAACTC	ACTCTCACAA
17101	GAACACAATT	AGAGTAACTG	CCCCCATGAC	TCAATTACTT	CCCACCAGGT
17151	CCCTCCCACA	ACACATGGGG	CTTATGGGAA	CTACAATTCA	AGATGAGATT
17201	TGGGTGGGGA	CACAGCCACA	CCATTTCATT	CCACCTCTGA	CCCCTCCCAA
17251	ATCTCGTGTT	CTCACAATTC	AAATACAATC	ATGCCCTTCC	AACAGTCCCC
17301	CCAAAGTCTT	AACACATTTC	AGTATTAACA	CAAAAGTCCA	AGTCCAAAGT
17351	CTAATCTGAG	ACAAGGCAAG	TCCCTTCTGC	CTATGAGCCT	GTAAATTCGA
17401	AAGCAAGTTA	GCTACTTCCT	AGATACAATA	GGGTCACAGT	CATTGGGTAA
17451	ATACACACAT	TCCAAACGGG	AGGAATTGAC	CAAAACCAAG	GGGCTACAGG
17501	CCTCATGGAG	GTCCAAAATC	CAATAGGGCC	ATTGTTAAAC	CTTAAAGTTT
17551	CAAAATTATC	TCCTTTGACT	TCATATCTCA	CGTCTAGGTC	ATGATTATGC
17601	AAGAGGTGGG	CTCCCACAGC	TTTGGGCAGC	TCTGCCTCTG	TGGCTTTGCA
17651	GGGTACAGCC	CCACTCCAGG	CTGCTTTTAC	AAGCTAGTGT	TGAGTGCCTG

Fig. 2 (cont'd 9)

17751 17801 17851	CAGTGGGGAC	GATGGTGGCC TCTGTGTGGG			
	GCCCTAGCAG		GGCTCTGATC	CCACATTTCC	
17051		3.CCDDC3.CC3			CTTCCACACT
1/021	COMONNONMO	AGGTTCACCA	TGAGGGCTCC	ACCCCTGCAG	CAAACTTCTG
17901	CCTGAACATC	CAAGCATTTC	CTTACATCCT	CTGGAATCTA	GGCGGAGGTT
17951	TCCAGACCTC	AATTGTTGAC	TTCTCTGCAA	ATGTAGGCTC	AACACCCCAT
18001	GGAAGCTGGC	AAAGCTTGGG	GCTTTCACCT	TCTGAAGCCA	TGGCCTTAGC
18051	TGTACCTTGG	CCCTTATTAG	TTAAAGCTGG	AGCAGCTGGG	TTGCAGGGCA
18101	CCAAGTCCCT	ATGGTGCATA	CAGCAGGGG	GCCCTGGACC	CAGCCCACAA
18151	AACCAATTTT	CCCTCCTAGG	CTTCTGGGCC	TGCGATGAGT	AGGGTTGCCA
18201	CAAAACTGTC	TGACATGCCT	TGGAGACATT	TTCCCTATTG	TCTTATTAAG
18251	ATTTGGCTCA	TAGTTACTTA	TGCAAATTTC	TGCAGCAGGC	TTGAATTTCT
18301	CCTCAGAAAA	TGAGTTTTTC	TTTTCTATGG	CATCATCAGG	TTGCAAATTT
18351	TTAAAACTTT	TATGCTCTGC	TTCCCTTTTA	CAATTAAGTT	CCAATTCCAA
18401	ACCATATCTT	TCTGGATACA	TAAAACTGAA	TGCTTATAAC	AGCACCCAAA
18451	TCATATCCTG	AACACTTTGC	TTCTCAGAAA	TATCTTCTAC	CAGATACCCT
18501	AAATTATCGC	TCTCAAGTTC	AAAGTACCAC	AGATCTCTAG	GGCAGGGGCA
18551	AAATGCCACC	AGTCTCTTTG	CTAAAGCATA	ACAAGAGTCA	CCTTTGCTCC
18601	AGTTCCCAAC	AAGTTCCTCA	TCTCCATCTG	AGACCACCTT	AGCCTGGATT
18651	TCATTGTCCA	TATCATTATC	AGCATGTTGG	TCAAAGCCAT	TCAACAAGTC
18701	TCTAGGAAGT	TTCAAACTTT	CCCACATCTT	CCTATCTTTT	TCTGAGGCCT
18751	CCAAACTGTT	CCAACTTCTG	CCTGTTACCC	AGTTGCAAAG	TTACTGCCAC
18801	ATTTCTGGGT	ATCTTTACAG	CAGTGCCCCA	CTCCTGGTAC	CAATTTACCA
18851	TATCCATTTA	TTCTCATGCT	GATAATAAAG	ACATACCCAA	GGCTGGGTAG
18901	TTTATAAAGA	AAAAAGAGGT	TTAATTGACT	CACAGTTCAG	CATGGTTGGC
18951	AAGGCCTCAG	GAAACAGAAT	CATGGTGGAA	GGGAAGCAAA	CACATCCTCC
19001	TTCACATGGT	GGCAGGGAGA	AGAATGAGCA	AAACGGGGGA	AAAACCCTTA
19051	TAAAATCATC	AGATCTCATG	AGAACTCACT	CTCTTGAGAA	CAGCATGAGG
19101	GTAACCATGT	CCATGATTCC	ATTACCTCCC	AACGGGTTCC	TCCCATGACA
19151	CGTGAAGATT	ATGGGAACTA	CTACAATTCA	AGAGGAGATT	TGGGTGGGGA
19201	CACAGCCAAA	CCATGTCAGT	CATGATATGA	GAAATTATCA	AATTAAGATG
19251	TAGGGAAGGT	TTTTAAAAGA	TTTGAGCAAC	CACAAATGAC	AGATATGTGC
19301	TATAGTAGTG	СААААТАССА	TTTTGCTCTT	АТТАААААТА	TAATTGTTCT
19351	TGATAATCTG	AATTATAAAT	GTCATGGATA	ATTATGATGC	ATTATGCTCT
19401	CAGCAGCTAA	AACTTCAAGC	ААААТАСАСА	CCTAGAGAGC	AATCAGCCTT
19451	AACAATAATT	CTATAAATTT	AATTTTCTTT	ATTTCTGATA	ATTACATTTT

19501	AGTTGACTT	C ATATGTGAT	TAAATACAT	r accattatt	r tggacttatg
19551	ATGTAGCTCT	T TGAAGTACA:	ATATGATGT	A GCTCTTAAA	G TACATATAGA
19601	AGAGCAGATA	A AAGTATCAG	TCACCATTT	C TTTGTAGTT	GTGCTTTCAT
19651	GATGAATATT	CTCATCAATC	TACAGATTA	TTGCAGGAG	CTTTTAAATC
19701	CATGTGTCC	A TTTTATGAGA	CTTAGCTTT	r gtctgtata:	AATGTGTTTA
19751	TTCAGTGTGC	ATGGATTAAT	TTGAGAGAG	C ACAGGTATGO	GTATCTTTAC
19801	AGCAGTGCCC	CACTCCTGGC	ACCAATTTAC	TGTATTAGT	TATTCTCATG
19851	CTACTAATAA	A AGACTATATA	TCACAATAA	A CTGAGAACCA	GCTGGTAAAT
19901	GAGAGAACTG	G TGGTCCACCT	TTTCATTGTC	GAGTTCTCAT	TTTCCTTAGC
19951	TTATGCTGCT	TATTCAACAC	TATTTCTGC	TAATCTAATC	CATTCACTAA
20001	ATGAAGGTGC	TGTGTTAGCC	TCCACATGAT	ATTAATACA	CCTATTTAAT
20051	TTATCCTTCT	TTAGATTAAA	AATAAATAA	TAGTCATGTG	CCACAGAATG
20101	ACACTTCAGT	CATTTGGTCA	TTGAAGGACC	ACATCTATTA	CTGTGGTCCA
20151	ATAAGATTAT	` ААТААСАТАТ	TTTTCCTGTA	CATTTTCATT	GTTCTGATAT
20201	GTTTTGÄTAC	ATAAATGCTT	ACCATCGTGT	TAGAGTTGCC	TGCAGTATTC
20251	AGTACAGTAA	CATGCTGTAC	ACCTAGGAGC	AACAGGCTAT	ACCACATACC
20301	TTAGGTGTAT	AGTTAGGTTA	TACCATCTAG	GTTTGTATAA	GTACACTCTA
20351	TGATGTTCTC	ACAATGAACA	AAATCACCTA	ATGATGCATT	TCTCAAAACA
20401	TGTCCCTGTC	ATTAATACAG	TATGTAACAA	TACAGTTAGT	ACAATATGTA
20451	ATACATGACT	ATATTCAGAA	TTTTAGCTAT	TTCTCTTATA	TTTCAAATGG
20501	ATTTTCTTAT	GCACTGTGTG	GCACGGGCAT	TTCATTTTAG	TAACCACAGT
20551	CTGGGAAAGG	AGAAGTCTTT	GAAGGATGTT	GAGCAAGGTT	ATGACATGGC
20601	CAGATGTGAA	TTTTTGATCA	GTGACTCCAT	GTTAGCAGAT	AAAGTTGTAT
20651	TGGGAAAGAT	CAAAAGCATG	AAGGCCAGAT	AAGAGGATAC	TGTATGTTAT
20701	CATGGATGGA	AATGTGAGGG	ATGGCAGGAG	AGATGCTATG	ATTGAATGAA
20751	TCTCAATATT	CTTGGTGATC	AAAGAATAAT	GAGACTCATC	CAATAAGACT
20801	CTGTGAATGA	TTGAATGTAG	TTCCTAAGCT	AGGAGGAAGA	ATGAGGAATG
20851	ATTTTCTGGT	TCCTGACTAC	AGCACAAGTT	TTTGATTTTT	AGAACAAAGA
20901	ATAAATTTGT	ACATGCTTTA	TGATTCCTGG	TTGAATTTTT	AAGGATAAAA
20951	AAGTCAGCTG	TAATATTATT	CTTTCCTGAT	ACCATGCAGT	ATTTGTATCA
21001	GTGATCTTAT	TCATTCCACA	CACATTCTTC	TTGAACCTGG	ACACTGCTCT
21051	AGACACTGAT	TCTTTCCAAA	TATCAGATAA	GGTTATTCTT	ACGTAGACCC
21101	TCAGTTCATA	TAAATATGAT	TTTCCCAAAA	TGTGAAATAA	GTGACTTTTC
21151	ATAAGATATT	TTTTAAAAGA	ATGTCTTAAT	AATAAATTGT	GAATGTTGCA
21201	TGGAAATGTA	GGTGACTTGC	ATTGTGCATC	CTGTGTTTGA	TTCACTGCTC

21251	TTGCATGTCT	TGCCTTTAGC	TGGGATGAC	GCAGTTCAGT	GAGCAGTGGT
21301	CTCAGTGACA	CCCTTGATAA	CATCAGCACT	GATGACCTGA	ACACCACATC
21351	CTCTGTCAGC	TCTTACTCCA	ACATCACCGT	CCCCTCTAGG	AAGAATACTC
21401	AGGTGAGAAT	TACCACCTTT	CTTTTTCCAG	G TGTTTCTGCC	AGCTTTTTCC
21451	CCAAAATTAC	TTAATATTAG	ATTAAGGTAT	AGCACAAGCC	CTTAATCCAA
21501	AATTATTACA	GAAACTGGAA	AATGCAGAGA	TAATAAGGAC	TCCCTTTGCC
21551	ACTCCTGAAC	CCTGAAGCAT	CTTTCATCTI	AGTCTTTCCT	AAAGCCACAA
21601	CCCTTAGGAG	GAGCAACAAT	GTGCACTGCA	GCCAATTTTG	AATAAACAGA
21651	AGCAGCTTAT	ATATATATAT	ATATATATAT	TATATATATA	ATATATGATA
21701	TACATTACAT	ATTTATATAT	ATGTAATATA	TGTGCCATAT	AGCCTGGTGG
21751	TATAGTTATC	ТАТАСАААТА	TATTTATTTA	TTGTTAATAT	ATAGAGTATA
21801	ТАААТАТСТА	TTTATATAAT	AGATATTTAT	АТАТАТТААА	TATCTATTTA
21851	TATAATAGAT	ATTTATATAT	ATTAAATATA	ТАААААТАТА	TAACATATAA
21901	TAGATATATA	TTTTATATAT	ТАТАТАААТА	ТАТАТТТАТА	TATTTAATAT
21951	ATTAATGATG	AATTACTATA	TTTGTATAGA	TAACTACACC	ACCAAGCTAT
22001	ATGGTGTGTA	TATATTAATA	TATAATGTAT	AATTCTATAT	TAATATAATA
22051	GTAACATATC	AATACTTAAT	АТААТАТАТА	TTCAATTGAT	TACAATCTAA
22101	TTCAGAAAGA	TTTATGTTGC	CATATCTCTC	CTTACAATAT	CGATATGTTT
22151	GTTTAAAAAT	CCAGCAATTA	TTTTCATAGT	CTAATTTTAG	ATAGTTCTTG
22201	ATTAATTTTA	TATGATCTCT	GAAATATATC	ACTGGATCTG	TTGTGAATGA
22251	TAAATCAAAA	ATGAAAAATG	GACATTACAT	CATTAAGTTC	TAGCTTGTCT
22301	TACTACTTCT	TATGACATTT	GATATAGAAA	ATTTCTACCT	TTCTGTAGCG
22351	TTTAATTGGT	GTTTTCTGCA	TGTATTTATT	CTGAAATTCT	CTAATATCTG
22401	CAAGTGGGAA	TTATGTGGCT	AAAATTAATA	AAATGTAAGT	GAAGGTAAAT
22451	CAAAATAGAA	TCTTTGGATT	TATCCAGTTA	TCTGAAAGTA	CATTTCATTG
22501	CCTTAATTCA	CACTTTATAA	ATTTTTCTAC	ATAAAGTTTT	TCTGTAATAT
22551 -	TTGTCTTTAT	AGCTGAGGAC	AGATTCAGAG	AAACGCTCCA	CCACAGACGA
22601	GACCTGGGAT	AGTCCTGAGG	AACTGAAAAA	ACCAGAAGAA	GATTTTGACA
22651	GCCATGGGGA	TGCTGGTGGC	AAGTGGAAGA	CTGTGTCCTC	TGGACTTCCT
22701	GAAGACCCCG	AGAAGGCAGG	GCAGAAAGCT	TCCCTGTCTG	TTTCACAGAC
22751	AGGTTCCTGG	AGAAGAGGCA	TGTCTGCCCA	AGGAGGGGCG	CCATCTAGGC
22801	AGAAAGCTGG	AACAAGTGCA	CTCAAAACAC	CCGGTAGGCT	TGTCGTTTGC
22851	CAGCTGTTAT	GCAAAAGTGC	ТТТАСТТТАТ	TGTTTCCATT	CAATCTTTGT
22901	TTTCTCTAAC	AATAGCATTT	СТААААТАСС	AAATTCTTAT	ССАТАТТААА
22951	CATGGAGTCA	AATAGTTAAA	TAGTTTTTCT	GTCTACGTTT	CACAAACTCG
23001	TCATAGAAGC	CCAAGTAGGG	ССТАТАТСТА	GGCATTCTCT	GGAAAGCCTC

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23051	CTCATAAACT	AGGGGTACTG	GATGCCTTAC	CTTGCCAGAG	TTATTTCAGG
23101	TAATGGGGAA	ATAAGATTAG	GTTGCTAAAG	CAACAGTTAA	GTTTTTTGT
23151	TTTTGTTCTG	CGTTCTTAAT	GAAAGTTTGG	AATTTTTACA	CTAAATATGC
23201	CACTGAATTG	CACTACAGAC	TCTGAGAGGA	ACAAGCAATG	ACACTAATCA
23251	ATTGGAATGC	TGGAGATTTG	AAATATTGTC	TGTGTATTAG	ACTTCATGAA
23301	AGAAGAGAAT	GAAATAGTTC	TTCAAAATTG	TGCCATACTT	TTTTTAAAAA
23351	GACTCTCCCC	GTATTTTTAA	AATÄATGCCT	AATTATAAAT	AGTGCCACCT
23401	GAAGCACTAA	TTAACAGGGT	ACTCCAAATA	TAATCATCTC	ACAGATATTC
23451	AAATGAATTC	TTTTTCTAGT	AATTAGCTTG	ATAGGGTTAA	GTGTTACCTT
23501	TTTAAAAAGA	GTTGCAAAAT	ATAAGACATT	AACAAATAGC	AAAACATATG
23551	TTTTCATTTT	ATCTCTTCCA	TCTCTCATAA	TGTTTCTTCT	GACAGCCAAA
23601	TTTTTGTAGC	TATGCACTCA	GTCCTCTCAA	TATATGAGAT	TTTTGATCTA
23651	AGCCAATACA	TTTAGGAAGG	GAAATAATAT	AAAGAAGCAT	TCACATTTTA
23701	CACATTGTTT	CACGAAGTGT	GGTGATATCA	AACTCTACAG	GCACATATAT
23751	TTGTGTATTT	CTCCTTAATT	AGGGAAAACC	GATGATGCCA	AAGCTTCTGA
23801	GAAAGGAAAA	GCTCCCCTAA	AAGGATCATC	TCTACAAAGA	TCTCCTTCAG
23851	ATGCAGGAAA	AAGCAGTGGA	GATGAAGGGA	AAAAGCCCCC	CTCAGGCATT
23901	GGAAGATCGA	CTGCCACCAG	CTCCTTTGGC	TTTAAGAAAC	CAAGTGGAGT
23951	AGGGTCATCT	GCCATGATCA	CCAGCAGTGG	ÁGCAACCATA	ACAAGTGGCT
24001	CTGCAACACT	GGGTAAAATT	CCAAAATCTG	CTGCCATTGG	CGGGAAGTCA
24051	AATGCAGGGA	GAAAAACCAG	TTTGGACGGT	TCACAGAATC	AGGATGATGT
24101	TGTGCTGCAT	GTTAGCTCAA	AGACTACCCT	ACAATATCGC	AGCTTGCCCC
24151	GCCCTTCAAA	ATCCAGCACC	AGTGGCATTC	CTGGCCGAGG	AGGCCACAGA
24201	TCCAGTACCA	GCAGTATTGA	TTCCAACGTC	AGCAGCAAGT	CTGCTGGGGC
24251	CACCACCTCG	AAACTGAGAG	AACCAACTAA	AATTGGGTCA	GGGCGCTCGA
24301	GTCCTGTCAC	CGTCAACCAA	ACAGACAAGG	AAAAGGAAAA	AGTAGCAGTC
24351	TCAGATTCAG	AAAGTGTTTC	TTTGTCAGGT	TCCCCCAAAT	CCAGCCCCAC
24401	CTCTGCCAGC	GCCTGTGGTG	CACAAGGTCT	CAGGCAGCCA	GGATCCAAGT
24451	ATCCAGATAT	TGCCTCACCC	ACATTTCGAA	GGTAAGGATG	TATAAAATGA
24501	TGCTGGAAAA	ATATAAAGGA	TAAATATGTG	TTAGACACAT	ACATTACATA
24551	TAAATGTGTG	ТАТАТАТАТА	TTTAAATAT	GTATAAGGTA	TATAATATAT
24601	ATATCTTAGA	ATTCTTTAAA	GTACACAGTG	AGCTCTATGA	AGCTTATCAT
24651	ATAAACAGCT	AGCAAAAAAA	ATAGTTCTCA	TTTTGAGAAA	CAGTCAAACT
24701	TCAAAGTTTC	ACTGTCATTG	TGATACTAGC	AACACAAACA	TCTAAGAGAC
24751	TTAAAAGCTG	ATGGTAATAC	CTAAGTGTAG	TGATAAGGCA	AAGTAATAGC

Fig. 2 (cont'd 13)

24801	TTGTAAAATT	TCTATAGATT	TCCATTCCTC	CTTTTCACAT	C TAAAAATTAA
24851	AACCAAATAG	GTTTTCATGA	CTTTTGGCAT	TCATTTCCAG	GTCATTTTC
24901	TTGCTGGCTC	TTAATGAGTT	GGTGATCATA	AATGTAGATG	AAGTTGTTTT
24951	CCTTGTAACA	GATTCCATTC	GACAGATTTA	TACAGTGTCA	TATCTTGACA
25001	CATTAAAGAC	AATCAAGATA	TGACATAATT	TGAAACTATT	CCAGTGTTTG
25051	GTACAGTATC	ACAACTGAAG	AGTGGGCTAA	GCTTTCTAAC	TCTTCATCTG
25101	CTTTCTTTGA	CATGACTCTG	GTAAGGATCA	TGACTTGGTT	TCTGTTCCTG
25151	GATTGTTTTT	GGTGTTAAAT	' ATGTGAAGTT	CTGCTCTAAG	ATATCACTGT
25201	TTTTAAATAC	CCATGTGTTT	TTAAGTGGTA	GGAAAATAAA	TGCAGTTAAA
25251	AATTGGGGAC	AAATATCTAA	ACCTCTCTGA	GTCTGTTTTC	TCATCTGCAA
25301	AATGGTAGAG	TGTGGTTTAT	AGTTCATTAT	GGGTTCAATA	TTTTTAATGT
25351	TTGTTTTTAT	TCTGTTGACT	AAACCCAGAA	CTTTGATATC	TTGGAAAGGA
25401	AAGATTTTGA	AACATTTATT	TTACAATAAA	GCAATTTCAG	ATACCTGATT
25451	GTTTGAAAAA	CCTAAAGGCT	TTATTCCTCC	GTAGTAATAT	TAATGCTGCA
25501	GAACTGTCTT	TTTAAAATAC	TGATTCTCAT	TGGGAAGAAT	GAATTATGGC
25551	GTATAGGGAG	AGTAAATATT	TCTGTTTCTT	AAGTAAAAGC	CAATAGTGCC
25601	CTCCTGTGGC	CCATTACCTA	TGAAACAATT	TCTCATATTC	GTCATAAAAT
25651	ATTTCACTGT	AGGAAATATG	GATTTCATTG	CAACTCAATT	AGTAATCATT
25701	ATGCCATTAC	TTCATATCAT	TGTATTTCCA	TATTTACATA	AATTTGATTC
25751	TACCATCTGC	TTCATTTACA	AAACTAAAAT	GTTTTCTGAA	CTAAACTCCA
25801	AAATCTAACA	GCACCAGCTC	TGTTTCAAAT	CACTATTAAA	AAATGTATTT
25851	GAATAGCACT	GGCAACTGAC	ATAAAACCCT	TTGGCCTCTG	CTGGGGAAAA
25901	TACAGACAAA	CTGACTTGTT	GCCGACAATA	TCAATATTGT	TTCCAACCAA
25951	CTGCTCCCTG	ACAGTGACTC	AGACCACCAG	ATACTCAACA	CAACTCCCTA
26001	AACTTGCTTT	AAGCGTTCCA	TCTAGATTTT	GAATAAACTG	TTTAAAAATT
26051			AAGAGCTCAT		
26101	GCGTAGAAGT	TGTTTCATTA	TAATGGTTCT	GTAAATAGGT	AACAGCAAGT
26151	ATGGTCAAAC	TACTGACTTT	GAGTGAAAGT	CTCATGATCA	СТТАААТТАТ
26201			TTTGACTTAC		
26251	CTCTTTCCCT	AGTAGCAGCT	CAGTACTGAC	CTACCCTTAT	ATGAGAGATT
26301	TTCTGCACTT	GATAAAGAAG	TCCAAGCTTA	TAAAAGTTCA	TTAACATAGA
26351	GACAGGAAGT	GCTTTGTAGT	TCAGTACATC	AAAGCACACT	TGGCTCTGTG
26401	TACTGTAACC	CGAAATATTA	AATGTGGATA	TTAGCTTCTT	GGAACAACTG
26451	AAGTTGTTAT	TTGTTTTTCT	TTTAGGTTGT	TTGGTGCCAA	GGCAGGTGGC
26501	AAATCTGCCT	CTGCACCTAA	TACTGAGGGT	GTGAAATCTT	CCTCAGTAAT
26551	GCCCAGCCCT	AGTACCACAT	TAGCGCGGCA	AGGCAGTCTG	GAGTCACCGT

Fig. 2 (cont'd 14)

26601	CGTCCGGTAC	GGGCAGCATG	GGCAGTGCTG	GTGGGCTAAG	CGGCAGCAGC
26651	AGCCCTCTCT	TCAATAAACC	CTCAGACTTA	ACTACAGATG	TTATAAGCTT
26701	AAGTCACTCG	TTGGCCTCCA	GCCCAGCATC	GGTTCACTCT	TTCACATCAG
26751	GTGGTCTCGT	GTGGGCTGCC	AATATGAGCA	GTTCCTCTGC	AGGCAGCAAG
26801	GATACTCCGA	GCTACCAGTC	CATGACTAGC	CTCCACACGA	GCTCTGAGTC
26851	CATTGACCTC	CCCCTCAGCC	ATCATGGCTC	CTTGTCTGGA	CTGACCACAG
26901	GCACTCACGA	GGTCCAGAGC	CTGCTCATGA	GAACGGGTAG	TGTGAGATCT
26951	ACTCTCTCAG	AAAGGTGAGC	TTTCCTGGAG	GCATTGATAA	CATCTTCCCC
27001	CTCTTCCCTG	CACTATGCCT	AACCCCCACC	CCATTAAATT	CCCTTGATTT
27051	CACTGTGAGT	GCCCCGGTGC	AAAAAGATGT	AAGACTGATG	AAACCGGGCC
27101	TTTCATTTGC	TCTCATTACC	AAATTTACAG	AGGAATAGAA	TCATTAAAGG
27151	TAGGGTGAGT	GGATAATTTT	GTTAATATGA	ATGCATACAT	TTATACCCAG
27201	TAGGCAATGT	GAATAAAATT	CAAGGAATGT	ATTTAGATAT	TGAATGAGGT
27251	CTCCTGAAGA	CATTTTAATG	ATTTGGCTTA	AGCTTCAGAA	CAACACTAGC
27301	TCCTTATĠAT	GACTTAAGCA	TTTTGAAAGA	CCAAATTGAA	ATTATTCTAT
27351	AGTTATGCTC	AGAGCAATAT	GTTAAATTTG	TTCCATTTGT	ACTTCTATGA
27401	AAAAATAGCA	GATGGATTGC	TGGGAAATCC	TAGTTGGCCT	GGTTAAAAAA
27451	ААААААААА	TCAATTGTCA	GCCATGAATC	ATTAGAGAAA	ATTATAGTGT
27501	CAGTGCCATT	TTCAATAGAC	TGCTTAAAAA	GTAATCATAT	TACAAAGTGT
27551	TTCTCATTGG	CTTTATATAT	ATATATAAAC	TTAAAGTAGA	GGACATAGCA
27601	AGGCATTTCT	TACCTAATAT	GCTTACTGTG	AAGCATCCCT	TTTGAGCAAA
27651	ATCACTCTAA	ATTTTCTCCT	CAAAGTGATC	CTCTCTTGAT	TATACTGTAC
27701	TGACTCTTAC	CACCAGGAAA	ATGTCTTAAA	ACCACTTCTT	TTTCCTGATA
27751	AATGCAATGC	TATTTGTCTC	TTGACATAAG	TAAAGCTTTA	AACATGGTCT
27801	TGGCCACATG	TGGAAAGAAA	TACTGGTCAC	GTAAAATACC	TGATATATCT
27851 .	TTCTATGTCT	TCCCCTGTTT	TTTTTATTTT	TTTTTTTTTT	TTATTTTTTA
27901	ACTCTGATAT	TGATGATGGC	ATTTATTTTC	TAGACCTTCA	GCCTTACTCC
27951	CGGAATGATA	TTTTTAAACA	TCAATTAAAG	CCCTTAGCTA	GACACTCTCT
28001	GCATTACGCC	AGTTTCCCCT	TAATGTAGGA	TGTCCCAATT	TGAAATTCCC
28051	CATTTTCTCT	TGACTTTGTA	AAATACAAAA	CCCAGAGCAA	AACATTGCTT
28101	CTTTCCCTCT	TTACTTCCTA	CTTGCCTAAC	AATGAGACAG	GGACAGCCGT
28151	GCAAATGGGG	CTTTCCGATG	ATAAAGTAAT	TTTAACACTA	АСТААААТАТ
28201	TGGTGTTTCC	TATGGTGGGC	TGCTAATTAC	ААААТАСАТТ	TTTCCTCCTA
28251	AAGAAAAAA	CTGGGCCAAG	GCAAACAGCT	CAGTGATAGC	AAATAAAATG
28301	TAACCATTTC	CCTATGGTTT	TGCTGTTATA	TGCTATTATA	GACAGCATAC

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28351	GTAAAGACC	A GTAAGGGTT	C ATTTTTCCA	C CTAAAATGT	C GGGCTTCCTG
28401	TAAAATCTT	r gattctagt	TCAGCACTT	C TAAGGTAAA'	r gggcatcttc
28451	ACATGTCAT	г татааааст:	CTAATGAAT	G AATTATATT	A AAATAGATAA
28501	ACAACCTATA	A GTTTTAATGA	A ATGTATCCT	A GATTGTATG	C TCATATGTAA
28551	GGATTCTAA	A TATCAACTTO	ATAACCAAA	C CAAACATAG	r gcaaataggt
28601	TATCATTTA	TAACCACAA	CACCTTCCA	CAAAACTGGT	C ATTTTTTAAT
28651	TATTAAGATA	ATCTGCAAC	AGTTGGCCA	TTAGCCATC	GCCTATTTCT
28701	TCAGCATTTA	GACATTAATO	CCAGATTCA	G AAATAAAGTO	AAGTAACTAT
28751	TTATAACCAA	GTAACATTCA	AATCAAAAC	T AGATGAAAGA	TTGGTTAGTT
28801	GCATAGCTAT	AACCAAAATG	CAGTTTTAAT	T ATTTTACTCT	AATCTATATT
28851	TTAACTGAAG	TCAATAAAAT	TTTCACTATO	GAAATACACT	AGAAAATATG
28901	CAATTTCTTA	TTCTTTTAA	GCAGATTTAT	TTATTGTACA	TGTTCAGTCT
28951	TTGAAATAGG	CCAATTTTAT	TTATGTTATC	TTATGTTATT	TATTTGTTTT
29001	GAAATGGAGC	CTCACTCTGT	CGCTCAGGCT	GGAGGGCAGT	GGTGCCATCT
29051	CAGCTCATTG	CGTCCTCTGC	TACCCGAGTT	CAAGCAATTC	TCATGCCTCA
29101	GCCACCTGAG	TAGCTGGGGT	TATAGGAGCG	GACCACCATG	CTGGGCTAAT
29151	TTTTGTATTT	TTTGTAGAGA	TGACGTTTCA	CCATGTTGGC	CAGGCTGGTC
29201	TCGAACTCCT	GACTTCAAGC	GATCTACCCT	CCTTGGCCTC	CCAAAGTGTG
29251	GGGATTACAG	GTGTGAGCCG	TGGCACCAGC	CTGAAATAGG	CCAATTTTTA
29301	AAATGGGAGT	ATTCCTACAT	TAAAATGGCC	AAATAAAGAC	TTTTTCTAAA
29351	ATAAACTTTA	AACTAATTTT	GGATAAATAT	GTTTTGCCTT	TGAGCCTTAA
29401	TAAAATGCAT	TAATGAATAT	TAAGCTGTAA	AAAGTACATG	TTAACTACAT
29451	AGCTATAGTG	TATAATATTA	ATATTAATTA	GTGCCTTCCA	GTAAATTACT
29501	AGATTAAAAT	<b>TAATTTTAAT</b>	ATAAGACACT	GAGCTTTTTG	TTTTCTTGAC
29551	AATAGAACTG	CAAGCAATAG	CAAATTGCTC	TAATCCTTTC	ACGTACATTT
29601	AAGAAAGTTT	ATGACCTATT	GAAGAGAAAA	GTAGATCTAG	TGGGTGATAC
29651	TGGCTTCATT	ATGGTTAATT	AATTGATCAG	TAGAATGTCA	GAAATGCTAA
29701	GAAAACCAAA	GAACTACACC	AGAGAGAAAA	TGTGTTAATG	TAAATTTTAA
29751	GGCAAGTTAA	TTAGCGATAT	ATAATAAAGA	TGTATATAAG	TTCATGATTT
29801	ACCTGTTTGT	CTACAATTTT	AGATGATTTT	TTGATACTCA	TATTTAAATC
29851	GGTAGCTTTT	CCTATAGATT	TTAATTTTTG	TTTAAATTCC	TCTTCGTTAA
29901	ATTAAATAAA	TAAAAATA	ACACTTTTTA	ACAGTTTTCT	CTTCTGCAGC
29951	TGCTCTAGGT	CATTGGTGGC	CATTGAGCCA	TAACTAGTCT	ATATTTGTTT
30001	TGGGTTTTGT	TTCATGTGTC	TGACTCAACT	AAATTTTTAA	ATAATTTGTA
30051	GTAACCAACT	TTGCAAATTC	TGGGTTTGTC	TTTAAATGTC	AGATCTGGCA
30101	ACGCTGCCTT	GACATTTCTG	CCTAGAAACT	ATTGGCTCTA	GGCAGTCAGT

Fig. 2 ((cont'd 16)

30151	GTCTGTCTG	TTCAGACTGT	TGACTGAAA	r ccccattcg:	TTTCATGCCC
30201	TATCTGGCCC	TTGCTGGCAT	ATGAGTTTG	AACCTTTGG	r gatttgcaga
30251	AATTGTCTAT	r gttagaaaat	CATTAATAT	TAGATTCAA	A CATATTTCTA
30301	AATAAAGCTT	ATTATTAAAT 1	TGGTAACTT	AAATGTATT	Г АТТСТААТТТ
30351	TTTTCATTA	A ATTGCTCTTC	ATCATATAA	TATATAATT	г ттатасааст
30401	GGATGAGTTT	GGCAGAAGAA	TACCAACTT	TCATATTCT	TGTGGCATTA
30451	AACTTTAACT	TGTACACATG	GAAATAAATA	ATCCTTAAAA	TGACTTATGA
30501	ССАСАТАААТ	GCCTTAGCAC	ATGTGGTTCA	TATTTGGAGA	TTTCTCATAT
30551	TTGTTCAATA	TTAATTTAAT	TGTTTGTTTA	TCCACAGTAC	TTAAGAAAAC
30601	TTCTATAGTC	AACATATATA	CTGTAACTGG	CCTCTACACA	GTATAAGCAA
30651	TTACCTTACA	TGGCTATTAC	CGATAAAGTT	AAAGTTGTAT	AAAGCCTTTG
30701	GATGCTTTTG	ATTTCAGTGC	TAAATAATGG	AGTACACATA	GAAGAAAACA
30751	TTTTAGCTTT	GGTTTGAGTG	ATCAAATTTT	AGGTCAGCCT	TTTTACATTC
30801	ATGTTATATC	ATCCCCATTA	TGCGTATCCT	GTGTATTTAA	TTTTGATCAT
30851	TTGATGTCCT	AAAGGAAGAA	AGCTATAATT	CTGCAATTTT	AATTAATTTT
30901	ACACTTTGCT	TATCCACATG	CCAGAGATTA	TAAAAGAAAT	CCCTAAACTT
30951	GTCCCACTTA	GTTGTTGATA	TCCTCTTCCT	GTATTTTAG	AGAGGCCATT
31001	TCTTATTTTC	TCTAGACATA	GCTTTTCATT	CCTTCTTGTT	ACCAATTGTG
31051	AATTCCTTAA	AATAGAGATG	ATAAAATTTA	TAGCCTTTTA	AATACCTAAT
31101	TTATGATTTC	TAAAAGATGG	TATAGCTTAA	TTTCATTAAA	ATATTCAAAT
31151	AAATGATACT	AGAATCAATT	AAGTTTTAAG	CAAACATTCA	TATATCTTTC
31201	TTCACATGTG	TAAATGGGAA	ATAAACATGC	CTTTTTATTA	AAAATAATTT
31251	GAAGACAAAA	GATAAGTATT	AAACAACGTT	TTATACCATC	TCTGTCAATT
31301	GGAAGTTGTC	ACTCTAACTT	AGCCAGAGCA	GATCTATCTC	ATTTTGCATG
31351	TGATATCATA	GCAAAAGTCT	AATCAGTTGC	ATAGGGAAGG	AAAAACTAAG
31401	ATAGTATTTA	ATCAATAGGA	TTCAGAGGAA	AATTATGCTA	ATGTGATTTA
31451	ATCTATTTTC	TAGTAATCCT	ATCACTAAAC	TGTCATTGAA	TTGTACTGCA
		ACTCAAATAT			
31551	TAGTTGGCCT	TTTTCAATGA	GTTAAGCATT	ATATGTGTGT	TACCAAAAAA
31601	TTATTTTTA	TAGTTCAGAG	AACCATTTTT	GTTGGATGTG	TAATTTGGAA
31651	GTTTTGTTTA	CATTATGTCC	TTAGGGGTTT	TCTTTGTTTT	AACAGCATGC
31701		AAATACACTA			
		TGCTACCTCT			
		TTTGTTTGTT			
31851	ATCACTTTTA	ATTTTGATGG	TTTCTCTGGC	CCGAACAGTT	GGTGAGATAG

31901	CCCCTTAGGT	AGAGATACTA	GTAGAGATTG	AGGCTGTCTC	тсаааттааа
31951	ТАААТТССАА	TGTGAATATC	ACTATTTTGA	AGAAATAATA	CTAAACAAAC
32001	AAACAAACAA	AACAAAAACA	AACAAACAAA	AAACTTGTCC	CAGGCATTAC
32051	TTTTTTGGGG	GCAGCAACTT	TGGTAGAATG	CAGAACTCAC	TTCAACAAAT
32101	ТААААТАААА	TTAACTCTTC	TAACTTTTGC	CTATTAGAGT	CATATGCATG
32151	CAAATATTCA	AAACCCATGC	AGTCTACAGA	TGTGGGCAGT	' TAATGTTGAT
32201	AGGTTGAAGG	ATGCTACAAT	СТGAAТСААА	GAAAACATAT	TTTCATCATC
32251	ACAGGACAAA	TGCTGTAATT	AAGGTGTGAT	TTTTATAGAA	TCCTTTTGAT
32301	AAAATCTCAA	AATTGTTTTA	ATTTCTATTT	TGCAGGGGTA	CTGCTATCAG
32351	ATCAATTTAA	ATCTGAATTA	ATCTAATATC	ATTTAATAAT	СТСААААТАА
32401	TTATTCCATC	САТААТАААА	AATAAAATAA	AAATTTAACT	TATGGCCATC
32451	TTTTACTGTG	TACTTTTATC	TGAGGAAGAG	ATAGAATGAT	CTACTAATAG
32501	AGGTATAACA	CTGTATGTGT	ATGAAAAGTT	GGCTAATTTT	GGTGCTAAGA
32551	ATTTACTTAC	AAAAAGAAAA	AGAATATACT	TAGTTTGGTG	AAACACTGAA
32601	TAATGGCGAA	ACTAGGTCTT	TCTCCATTAT	TTTTTTTCTC	TCCAATTTTT
32651	CAGCAATAGC	AAATAGCTGG	CAATTATTCC	ATGTTAATAT	TTTGATCCAG
32701	AAATTTATGT	TCCAGTAAAG	CGAGCACATC	TCCCTCCTTA	TTTTTGTAAT
32751	CTAGGCATGA	TGTCAAGTGG	CAGTTTAACA	AAAGAACTGT	TTTTCCTTTA
32801	AAAAAAAAA	АААААСАААА	GCTGCCAATA	TGTATTCCAT	TTCCCTATGC
32851	CTTCTGTGAC	CATCCTTCAT	TTCCCTTGGC	CCTGGCCCAC	CACTGTCCTC
32901	CATTTGTAGT	CCATGTTTTC	ACCCTCTTTA	CATCCTTTCT	TGCCCTGTGC
32951	TTTTGAGTTC	TCAATTAACT	TGGCTGTCTG	CTCATTGCTT	ATGATTTCCA
33001	ACTGCATATC	TGATAGAAGC	ATAATTTTCT	CCTCAAAACC	CTTTATCTTA
33051	TTTTTTTCC	CTATGTGATT	CAAACAGATG	GCGTAAGATC	ATCTGGAAGA
33101	ACTGAGCAAT	TATAATTAGA	TTCAATCTGT	TTGAAATTGT	TCATTCTGAA
33151	TAGTAACCTC	CTCTGAATTG	TTTTCCTGTC	CTGGCATTGC	CTTGCCCTTG
33201	TAGATGTGCT	TAAGTGTCAT	AGCTGTGCTG	TTTTGCAGAT	ATACCCCATC
33251	ATCTCGGCAG	GCCAACCAAG	AAGAGGGCAA	AGAGTGGTTG	CGTTCTCATT
33301	CTACTGGAGG	GCTTCAGGAC	ACTGGCAACC	AGTCACCTCT	GGTTTCCCCT
33351	TCTGCCATGT	CATCTTCTGC	AGCTGGAAAA	TACCACTTTT	CTAACTTGGG
33401	TAAAATATTC	TAAAATATTG	ATTTTGTTTT	GTTTCTTTCA	CCACCCACTC
33451	TCACAGAAAC	CCTGGAATCT	СТССАТААСА	CAACACGTTT	TCATTTAAAG
33501	GGAGGGATAA	AAGCACTTTA	ACAGTACCTT	TCATTTGTGT	CATTGTTTAC
33551	TCTTCACAGA	AAAATCTCCA	AACATTATGC	TATTTATTGC	TCATGACAAA
33601	TGCTTAACAT	AGATTAATAC	TGTGGTTGTT	TTCTAGTCTA	GGCTCCAGAG
33651	GCTCAGAAAG	TTCACTTGAC	TTGAAAAAGT	CTTACCATTA	CTAAGGGTTC

Fig. 2 (cont'd 18)

33701	AAGGCAGTAA	CCAGTTCAGA	ACATCTGACT	TTAATCCCAG	GGGCCTTTCC
33751	ATTCCATTTA	AGAATCCTCT	TAAAAAACAG	GAAGGCATCT	CCTTATTTAT
33801	TTGTCTGAAA	ТАТТААААСА	тсстталалас	AAAATTAGTA	ATCTTTTGTA
33851	GAAAATAGAA	ACAATTAGGA	AGAAAAAAT	ATGTAATTCC	ATGACTCAAA
33901	GTTAACTTCT	TTTAACACTG	TTAAAGTTAA	AACTCCTTAA	AATTCATACA
33951	AGAATTTCTG	TTAAGACAAT	ACTCTGAACA	TTTTCAAATA	GATACAATGA
34001	ААААТАААТТ	ACCAACTTAG	TCATTGGGTT	ACTTTGTATT	TAACATCATT
34051	TGTATGAAAT	ATAAAATCAT	TTGCATAAAA	TTTCATTAAA	AGCACTCTGA
34101	GTAACAAAAT	AATTAAAGAA	ААСТАААСАТ	GCCAGATACC	ATTTAATAGA
34151	TTCAATGACT	TTAAAAATAT	ATTTATTTTC	TATAAAGTCA	CATATAAAGT
34201	ATTTTCATTA	TTTTTATGGT	AAATATTTTT	ATTATTAGTT	TATCAGAAAA
34251	ACTTGTACAT	AAAGATGAGT	ATTGATACAT	AATCTTATTA	GAGCCAGAGA
34301	CGATCATTCC	TTCTAGAAAA	ACACATCTCT	GAATTTAGGA	CGGAGGACAA
34351	TGAAACAAGA	AATTTCACTT	TATAATTTAC	CTTTGTCAAA	CTATCCCAGA
34401	GCACATCÀAT	TCCATCATGA	AAGTACTCTT	TTGACATTAT	ATAAAAAATT
34451	AGTAATAGAA	AACACACAAT	CCAAAACCTT	ATATTTTCTA	AACTTCAAGT
34501	TAATCATCAA	CTTCTCTTAG	ATTTTTGAAG	ACCTGAAAAT	AAACATAATT
34551	TCAAATAACA	GAACTCAAAC	ACCATATACA	TTTGTAATGA	GGCACAACAG
34601	TCAATTTTGA	GCCTTGTATT	TTCCAGGTTT	TAGCTGAATA	ATCTTCACTG
34651	CTTTCTTAGC	TTTTTGCCAG	TCTAGTTTGG	GGACTATTTT	GCCTTACTGG
34701	GCCTAAACAG	AGTGTAATAT	TAAAATATGT	TAATAAGCCA	TACTGAGAAT
34751	AAGATAAATG	CAGGTTTCTA	ACTCCTTAGG	GACACAAGTG	GGGACAACAC
34801	ATTCCATGAA	CACAGGTGAA	TGAATGCCCC	TAGTTTCTCT	GAGTTGGACA
34851	ATTTCATGCG	ATCATTTTTT	TCTCTGAGGC	CAAAGTCTCT	GGTTTGATCT
34901	TCCTAGCAGC	TTCCAGAACA	GAAAGTGAGT	TTACTTTGTC	TCCATATTCT
34951	TTTTCTCCAT	GCTCGGGAAT	CCCCTGCTTT	CCTGATCCCA	CCACAAAAAC
35001	TCCCCTGAGG	ATGAAGCCTT	GGCTTTCCAG	GCTTCCAGGG	AAGCCTCGAT
35051	TCCTGGCTGG	AGGTAGTTGT	ACCACACTCC	CAGAGGGCTA	AATCCCATAA
35101	ACATCATCTT	CTGTCTTTGT	AGATCATAGA	ACTTTTTATT	ATCATCCAGG
35151	AAGATTTCTC	TTTTGAAACA	AGGCTGGAAA	AACTTTATGT	CAGTCCTGAC
35201	CTGCTCTTTA	ATGACTGCGT	AGAGGGAGAT	GCCCAGCTTA	TCCAACTTGG
35251	GTTGCAGAGA	GGACAGATCT	GCAGCCCCTC	TTGCCAGAGA	AAACATCCTG
35301	GCACAGCCAC	AATCACAACT	CCATTCTTCT	CCCGATAGCT	CCTTTGCTTT
35351	GAAACTCATT	GGTTACTTCT	CCAGTGTTTT	CAGGTCTATA	TTCTCCAGGT
35401	ACTCCAGCAC	CTCTTTCCAG	GGCTTGGACA	AAAATACATC	TGTGTTGGCC

Fig. 2 (cont'd 19)

35451	AGCATCAGTO	CCAAGGCAGC	AGCCTCCAAC	G GGCTCCTGC	A CCCATGGACC
35501	ACATCCACAC	C AGAGAAGCAC	CTTGGGTCCT	CAAGTGCCTC	CCTCTTCTTC
35551	CCTTCTCCC	AACCTGAAGC	CCAGACACTA	A AGGGGTCAA	CCCTCCTGGG
35601	CCCTGAGGGT	TCCAAGGGCC	TCATTACTT	TTCTTTTTT	CACTGGAAAA
35651	AAAATTCTAA	TCATGCACCT	ACAGAAGATI	GACATTTTTC	AGTAAGTTGG
35701	ACTTTCCAGC	TTTCAGCCAG	GACAAGACTO	AAGGCTATGT	CTTTTCTATT
35751	GCAACCCTTC	CCACTATATT	GAGTAGGGCT	TTTAGCAATI	GAAAACAATT
35801	ATTTTGGTCA	TGGTTTCATA	TAAGCTAATG	ATTTCATATC	AAACACCAAG
35851	TTTTTGTTTC	CTAACCTATA	TAGTGATAAG	AGAATTTACC	TATAATGCCA
35901	AAGAATGTAT	AGCTTTTATT	TGCTTTAAGA	TGCAGTTGAT	AAAAATTTTTT '
35951	AGCGAAAAGC	CTAACACTTT	AACTTCAAAA	AATGAATTTA	AAATGTTTGT
36001	GTAGGTCATA	GGAATATGAA	AAAATTTTAT	ACAACATCTA	AAACACACCC
36051	AAATCACCTA	AAGTGCTATA	AGCTTGCTAA	GTACTTCATG	TCTCCTATCA
36101	ATTCTTTCAT	TAATTGACGT	TAATTTGATT	AGTTGACTCC	TTCTTCTATT
36151	TTTCCTCACC	ATTATTATTC	TGATTAAATC	CACCTTCATT	ATTCCTTAGG
36201	AACAAAAAGA	CTCACCACTT	AACTATGTCT	GACATTGGTG	AAGTCGTTTA
36251	AACTTAATTT	TCTTATCTCT	TGAATGGATA	CATAATACCT	AGGTTATATT
36301	GTAAAGAATG	ACGGATATAG	TGTATGTAAA	GATGGAGAAG	TGTGTAAGAC
36351	TTGACAGATT	CTGCCAAATC	ATTATTTTCA	CTGGAAAGCA	TGTCTTACAC
36401		TAGCATTCAT			
36451	TTGAGTAGTA	ATTCGCAACA	CAGTAACCAC	AGGATTTTAT	GTAAAAGACA
36501	TTCACAGATT	GTGTTTTTGA	AAGATTGTAT	TTTTGAAGTA	CAAAACTATG
36551	ACATTGTTAT	CAAGGACTCA	TTTACCACAA	АТАТСАААТА	TTTGTGCAAA
36601	GATAAGTTTA	TGCTAAGATT	TGCATAAATT	AAAGTTAACA	TGGCAACTGA
36651		TCCATGGTCA			
36701		AATGTATTTT			
36751 -	TAATAAATGA	AATGTGAATT	ATACTTTTAC	TGACAACAAA	GCTCTCTGTA
36801	GAGCTTTAAT	GTTCTAATGA	ATTAGAAAAC	CACTGATCAA	ATACATCCCT
36851	TACATTTCAT	TGCTATAGAA	ACCAAGTCTG	AAAGGTTAAG	TTTACCTTTC
36901	TAGGATGTGG	GTTTCCCCCC	TTAATCTATT	GTGGTTTATA	TCAGAGATCT
36951	CTCAGCTGTG	TCAGACAGGC	CATGACTTAA	GTGACACTGC	CCTCTTGATT
37001	CTCTTCATAC	TTTTCCAACT	ACAATTCTTT	CTCCTGGGGT	TGCTCATCTT
37051	AACATAGCTG	TATCATTTAT	TGTAGACACA	AGGTCACTTT	TGAGAGTGAA
37101	TGGGACTATA	TTAATAATTG	TTCCAGGTAT	TAGGTGCAAA	CCCTGGGCAA
37151	TGCAATTCAT	CCTCCATCTC	CTCCTTATAT	TTATGTGTTT	ACCAAGTTGT
37201	TTTTCCTGTA	GACTTTTTTT	TATCCTAAAC	CCTTTTTCTA	TGTTCTCATT

37251	CACAACTTTA	ATTCTAATCT	CTCAAATCAA	CATTTCACTT	TCTGTCTGAG
37301	ACCTTTTTCA	GCTCTAAAAC	TAAAATCCCA	TCAGTGTGCT	AGACCATATA
37351	GCCACCTGAA	ATCAAAGTCT	TTTCTTAAGT	TCTTTTCTTC	TATTTGTCTT
37401	ATAATTTCAT	GTATCATCCT	TCTCTCTACT	CTAGCACAAA	ATCTGTGTAA
37451	TCAATAGTCT	TACTTGAAAC	TGTGCTCTTC	ATATTGTACA	TTTTCAATAG
37501	ACAGGAACCT	GTGATTTTAT	CTTCAGAATA	TCTCCTACAT	CTGTCTCTCA
37551	TTTTCAGGGA	CATTGTCCTT	GCTGAAGCTT	TTTTAACTAT	AGACAATTGC
37601	AGCAGATTTT	AAACTGATCT	TACTCTGTCG	ACTCCCTTAT	GTTTCAACAT
37651	TTTCACCCAT	TGGAAGGTAT	AAAAGAAGAT	ATTCCTGTCC	GTGTCAACAT
37701	AATCTCATGT	ACCTCTCCAG	ATCTTAGAAA	CACGTATGGC	TTCAAATCAG
37751	GCATTTGGAG	ATCTTTATGC	TGTATGGTTT	CAGAGTGGAA	AAAATGATTG
37801	ATTCAAAAAC	ATAATATTTA	AAGAGTTTTT	ATTGTATTTA	CAGTTCACCT
37851	GAACCTCTGT	TCATTGGGCA	AGAAAATGAG	TACTCTTAAA	ATGCAATAAT
37901	AAATTAAAGT	TACTTTATTA	TTAAATTTTA	AATATATATA	TATATACTTA
37951	CCTTAAATAT	GTCCTCTTGT	TGTCTTTTAG	CATCACCCAT	TTTTGATTTG
38001	ACCATTATCT	TTTCTGAATA	ATCAGTAAGA	TACAGGATTA	TTATTAATGT
38051	TCAAAAGTTG	CAGTATTCAT	GTTTTCTTTA	TTCTTTCTAC	CAATTAAAAT
38101	GTGTTAATAT	ATAAAATTTT	TAGAAATTTT	ACTATAAAAA	ATCACAACAT
38151	ATATTAGAAA	ATTAAGATCA	CTACAATATG	TCATATTTAG	TAGACTACTG
38201	TGAGCTACTG	CCACAGTAAA	CTATGGTTCG	TGTGTCGTTC	CCAGCATGCT
38251	AGCCCTAGTA	GAAACCATTC	CCATTCAAGA	AAGACTAACA	AAGTATAGCT
38301	TACATAAATC	AAAAAGTCTT	TGGATGAAAC	TTCATTTGGG	AAAATAACCC
38351	AATCGCTACC	CTTCAATTTT	TTATGAATGA	AAAAATGGAA	GAATAAAGGC
38401	CTCTAAGATC	CATTCAAAGC	CAGGAGACAC	ACAAGAATTT	CTAAATAGAA
38451	GAGAAACAGA	AGAGGTCATA	GTTCTTGTGA	GCCATCTCAT	AACCTGGTGA
38501	GACTCATTGT	CATGCCTCCA	TGCATGATAA	CAATCGCTCA	GATTCATTTT
38551	TCATCTTGCC	ACAAGGGTTA	CATGCAGGAA	CATTAATGTC	AACCTGTCAC
38601	TTCTAATATC	CATCTAATAT	TCTCTAAATT	CGATGGATCC	TTTTGCATAT
38651	GGTGATTGTT	AAACACCTTT	GCATAGGAAC	AGTTTCTATG	CTTTTGTACT
38701	CAAATCTTCC	TCTACCTTGA	ATCCTTTCCC	ATCTTCGTGT	TCAACCTTCA
38751	ATCTTCTCAG	AATGAACTCC	TGTCTTCTAT	TCTTTCGGAA	GCATAGAATC
38801	TCACGGTCAG	AAGAGACCAC	ATCTGGTTCA	ACCCTTCATC	TCTTATGTAA
38851	AATTTTATGA	CATCTCTAGC	TTCTTCTTTA	AACCCACCAA	TGACAGAAAC
38901	TACTAAAATC	TAGAAATAAC	ACCTTTGAAA	TTCTTTCTTT	AAGAGATCAA
38951	ATAAAATTTT	CCTGAATCTT	CACCTATTGT	TCCTAGTTAT	ATATATCCAG

Fig. 2 (cont'd 21)

39001	ATTCTACAAA	ATAAGTCAAA	GTTAGATTGC	ATATGACAGC	TCTTCATATT
39051	TAAAACAATA	TAATAAACTC	ACTAGTTAAT	GTCTAGCTGT	AGATGCAAAA
39101	GTAGAGAGTG	ACTTGGGGTT	ATTTAAAAAC	CCAGTCCAGC	CAGACACATT
39151	GGATCATGCC	TGTAATACCA	GCAGCACTCA	GGAGGCTGGG	GCAAGAGGAT
39201	CCCTTGTCCA	GGAGTTACAG	GCTACAGTGA	GCTATGATCG	TGGCACTGCA
39251	TACTCCAGCC	TGGAAGACAG	AGTGAGACCC	TGTCTCACAA	TAATAGTATT
39301	TAATAATATC	ATAAAAACCC	AGTCCACATT	TATATAGGAT	CCTGTTTTCC
39351	TCAAGTTACT	ACAAATAAAT	ATATAATCTT	AATAAAAGGT	TAGTGGCTTT
39401	GCCAAGATAG	TGGCTTGGCT	ATGCAAATGC	AATTTAAGAC	AAAGTTGGTA
39451	GCCCTCTTTT	TCCTAATACA	TTGCCATATC	TGTTTCTCTT	CTATTTGGAA
39501	ATTCTTGTGT	GTCTCTTGGC	TTCGAATGGA	TCTTATAGTC	CTTTTATTCT
39551	TCCATTTTTT	AGTCATAAAA	AAACTGAAGG	GTAGTGATTG	GGTTATTTGC
39601	CCAAAGCAGA	TGGAAAGCAA	AACTACCACT	AGAAGCTCTT	TACCAATTTG
39651	TGTTCCATTC	AAAAATTAT	CTTTGTATGT	CTTACATTTG	TCTTCTACTG
39701	TATAGTTTTT	CTTGTTCTAT	TTTACATATT	AACTTTTCTC	CTTCTTCAGA
39751	CATCTGCCCT	ACTGGCTACT	CTTGAAATCA	GAGACTGTGT	CATATTTTTC
39801	CTTCTATTCA	ACTACAACAT	CTAAAAGCAG	ATCTGTCATA	GTTATTAACT
39851	TAATTGAACA	CTCTTAAATA	GTTAGGTGTA	ATTTCCAATG	CAGAAGCTAT
39901	CAAAAGGGTT	TGTAAATGCA	AACTATTCCC	TTTAAAATCT	ATCCTAATCC
39951	TCATTAATGT	TTCATCTTGA	TAGAGCTAAG	TATTATGTAT	TGAAATTGTA
40001	GAAGTACACT	TCACTTGGAT	ATCTCTGCAA	TCATTTAGGT	AAGAATTATA
40051	CAAAGCCAAA	AAGCAAATAA	AATATCCTCC	TAACCCTATA	GATACGTATA
40101	CTAAAATGAT	GCACTTGCAA	ATTTGTTTAA	TACTTCATTA	ATTTAAACAA
40151	GAGTAAATTC	ATACTGTGAA	CCAAGAATAG	GGTGACTTAC	CCCAATCTTG
40201	CCACCTTAAA	CATAAACATT	TTAAGTCTTC	AATGTCCTAC	AGTGTACCTA
40251	CTGGCTGTTG	TCACTAATCA	GACCGAAATG	GTACTAATGG	TCACTGCAGG
40301 -	CTGAAGGAAT	ATGCTTGAAA	GATAGGCAGA	TCCTCTCCCT	CTCCCTTTTT
40351	TACTTTTTTC	GCCTTTCCAT	CCTTTCTTCT	TTTTTTCCAA	TAGATTGTGC
40401	ACTTTGGAGA	TTCATATTTT	CTTCCTTTTC	CATTACATTT	TAAATATGTG
40451	ATTCTTAGTC	CTATGCTTCC	TTTTACTCCA	ATCAATAACT	GGCTCTATCA
40501	GAGGGTTGTT	CTGTGTGTTA	ATTCGGTTAA	TACCAGGATT	ATCAAGCACA
40551	GTGCCTTCCA	AATGTGAGAT	ACTTCTCTCC	GGTTACCTCT	GGGTTTACTT
40601	TTCCTGTTTT	ACATTGTTTT	GAGAGCCAGT	ACTTGTATTA	AGAAGAAGTT
40651	TAGTGCCTGT	GTCACAGAAA	AAATCTTAGT	AAATTTTGAA	GTGATGTCAG
40701	AĄCAACTCTA	AGCCACTGAC	GGATTCCACA	GGGTTTTGAA	AATACTCGTT
40751	AGTTCCCTTT	ATATCTTAAG	AGGCTCCTGC	CTGCTTTCTC	ATATACCAGT

40801 40851 40901 40951	TTTCTGTTTT TAGTTGTACA GTGAGGACTC	GCTTTTATTC TACAATCAAC	ATATGAGCAT CAAATTTCAC CAAATCTTTC	AACTATATTG	
40901	TAGTTGTACA GTGAGGACTC	TACAATCAAC			TTTTCCAATG
	GTGAGGACTC		CAAATCTTTC		
40951		mmmccca a ma		CTTAAATTGA	TGACTACCAG
	መጠአ ሮ እ ሮ እ ሮመጥ	TITGGCAATA	AGCAATAAGA	AAATAAATTG	TTATTAAAAA
41001	TIACAGACII	AAGATACTTC	TTTGGAAATA	TAACATGTTT	GTGACTTTTG
41051	ACCATCTCAT	CATGATATGC	TCATCTTAAA	CAGAGTAGAA	AATCATTTCA
41101	ТАТААТТААС	TTTATGGTGG	GCTGCAGATA	CCATGTATGT	TACATTGTGT
41151	TTAGTTATAA	AAATGTTTAT	TATACACTAT	TTCCTTATAA	TCTAACTTTG
41201	ATAATAATGA	TGGTCCTAAT	CATGAACTTA	CATCAATTAA	GAGCTTGAAG
41251	TGACTGAGAG	TATTTGCCTG	GAAGCATTTA	AAGCCCTTCT	TGGGAAATTT
41301	AGATGTTTTA	TATTTTACTT	TCTTTTTGAT	TTTGCTTTTT	CCATTAAAGT
41351	GATTACTATT	TTTAAAGAGA	AAACCGAAAA	CTCTAGAAAG	ACCATCTTTT
41401	CTTCATAACA	GGTAGCAGAA	AACACCATGT	TATTACATTT	CTAGCAAGAG
41451	CAGTAGAGGT	GACTTGTTGG	TTTTGTGTAC	TGTTGCTTTA	GAAATTGATG
41501	TAAGGCTTCC	CATAAACGTG	CCAGAGGAAA	AGAGGGACGC	AATGGGATCT
41551	GTTATTGAAC	ATTTCAGAGG	CAGACTCTTA	CCTTAAATAG	GGACTCACTA
41601	TACATTCATG	TTTTCATAAG	TATTGGGATC	ATGTTCTTAC	TTTCTATCAA
41651	CCTGCTATTT	TCATCTTTCA	AGCTTAAGAG	TAATAGGCTC	TGTGTGTTTT
41701	GTTTTTCAGT	GAGCCCAACA	AATTTGTCTC	AATTTAACCT	TCCCGGGCCC
41751	AGCATGATGC	GCTCAAACAG	CATCCCAGCC	CAAGACTCTT	CCTTCGATCT
41801	CTATGATGAC	TCCCAGCTTT	GTGGGAGTGC	CACTTCTCTG	GAGGAAAGAC
41851	CTCGTGCCAT	CAGTCATTCG	GGCTCATTCA	GAGACAGCAT	GGAAGAAGGT
41901	AAGCGTTGAG	GGGGATTAAA	GATGAAGTCA	CTTTATTTAA	ACCCTGAGAG
41951	GGAAACCATC	GTGTCACTCA	CATCACAAAG	ATTCCTGAAG	AGGAAAATAA
42001	ACTAGTGTAA	TTATCATTTG	GGAAACTAGA	AGCTTGAAGA	AGTTTTATTC
42051	TGTATTATCT	TCTATTTCTT	TATGTATTTG	GAAATATGCC	AGAATTTGTT
42101	ТАТАТТААТА	CTTGGCTGTA	GAAGAGTTTA	GACTAAATCT	ACTTTTCCAA
42151	TACAGAAATA	ТАСАТАТААА	CTATTTTCCC	AGGTGCATCA	AATATCAGAG
42201	CAAATGTTTT	GTTTGACATT	TTGGTTAAAG	AGCCATAAAG	ACACACAAAC
42251	CAGAAACATT	ATTTTATGAA	AATACCACAT	GTTGCTGACT	TTTATTCCCA
42301	GGAATTCCCT	CTGGTGCTAA	TTTTTTATTA	TATCATTTTA	GAATTCATAT
42351	TGTACCTACT	TTTTTGCTTT	ATAAGTCACT	ATTTCTTCAT	CCAATGGCAA
42401	TAAAATTGTC	ACCTAACCTA	ATAAATATCT	TTATAGTTAT	ATAGTTCTAT
42451	GTAAATACTC	САААТАААТС	AGCTTGAAAA	CCTCAGGAAG	CTGAGTTGAT
42501	GCTCAAATAT	ATATATTTTT	GTAAACTGTA	GAAGCTCAAA	TGTCAAATTT

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42551	AACAATAATT	TGAGAGACT	r ttctctttg/	A TTTAATGAAT	TTTTTTAGTA
42601	TCCATAAAGA	AAACTTACA	G CATACATAT	r ATAAAGCATO	TCAGCTAAGG
42651	ATAAAATAA	ACTAGACAT	A CAAATTCAA <i>I</i>	A CTGATTAGA	TGAAATTATT
42701	AACCCTAATA	ATTATGTTT	A AAAGAAAAG	CTCCAAATC1	TGAGACATAC
42751	CAGAGTTTAA	GTCTTCAGC	ATCCATTTAC	TTGTGGTATA	AACTTAGGCA
42801	AGTTTCTTAA	ССТТСТТАТО	CCTAAGTTCT	GCATCTGTAA	CTTCTTAGGT
42851	TTGTCACAAG	GATGAAATAT	GAGAACAAAG	AATAATTCTG	TTCCATGATC
42901	TTTTCCCTTC	CTACCTTCTT	T ATTTAAAGTA	TCTTCTGACT	' GAGGGGTTAG
42951	GCAGCAATGA	AAATTGACTC	ATGTTTTTCA	GGTCACCACT	ATGGATTCAA
43001	TATACTGGCA	TTAAATCAGT	AGAGAATAGT	TGTCATTGCC	TTTTGCAATA
43051	TTAACCAAAC	CACTCAGTTC	ACTGTGACAG	ACAGTGAATT	ATATCCAATG
43101	ACTCCACTGA	TTTTTTCCAT	GTAGATAGAC	AAAATATAAC	TACTCTCAAA
43151	TGTAAGGACC	CTGCTTTCTG	AAATGGTTCT	GTTGCTCTCT	TCACAGATAG
43201	GCTTCTTATA	ATACTTTTAA	AATAATTTGC	TAAGCATACA	GATGGCTTTC
43251	TAGAGTGTGG	CATTGACAAA	TAAAGTGATT	TTTATATACT	GGGAAATTCT
43301	GGCCTTCAAT	GTATCAGGAT	TAAATAATCT	GAATTTCTGA	AAGCTAGCCT
43351	AAGTGGGCAA	GATGGCTTTT	TTGTGCTCAC	GCATTGAATA	CTGAACTATT
43401	CTAGTTCTTA	AATGGCGATC	TAGATTCAAG	ACTTATTGAA	CTAGATTGAA
43451	GGGACTTTAT	TGATATCCTA	CCTAATGCTC	ACACTGACAG	ATGAAGAGAC
43501	TGAGCCACAT	GTTCTAAGGT	CATAAACAGA	AAGAATGAGA	ATGAGATGGT
43551	СТААТТААТТ	GTCCACCTTT	CCTATGGTAC	ATCAGGGTAA	CACTTTAGTT
43601	TACGAGGGTA	TTATTAGAGA	TAGAAAGAAT	TTTTTTTTAA	ATAATTGACT
43651	CAAATACCAA	CATTTTGCAC	ATTACATAGA	GTAATAGCTT	TGCCCAAGTT
43701	AGAAAACTGG	GGGTTCTTCT	TTATTCCTCT	TTTGACCACA	TCTATATACT
43751	CAGTTTTAAA	AAGGTTCTTC	CTGGTATCCT	TCAATTCCAT	CCCCATGTTT
43801			GCTATTCCAG		
	AAGCACCTCC				
	AATCACAGTA				
	AGCTTTTGGG				
44001	CAGCTTGTCA				
44051	AGCAGAAATA .	AACATACTAC	TCCATAGTAA	AAAGAGGATG	AACTTTTCTG
44101	CAAATATTAA				
	AAGTATAGGA				
	AATAGATAAA				
	CACCTTGAAA				
44301	AGTAATTCCA (	CATTTATAAG	AGTATGATCA	ACGCATCACA	GATAATGTTG

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4435	1 TAATAACACA TTAGATAAAA GTGCTTATTT TCCTGAAATT ATATGGAGAA
4440	1 AAAAATCTGA AAGTGGACCT TTGTTGGATA CAAATGAAAT AAATAAGGTA
4445	1 CATACATTTT TTAAGGTTCG AAAGTTTATG GCAACTTTAG TTTGGGTTTC
4450	CATGCTATTC TATTTATTAT ATGGGAATTT ACTGTAGCTT TCAACATGTA
44551	CGAAACAGGC TGGTAGGGCT CATGCTTGTA GGCTTCTGTC TAATAACTTG
44601	GCAACTGAGG TACTTTAGGG AGTATGGATG GGGCTCTTCC ATGTCTCAAC
44651	GTCCTGACTG CCAAAAAATT ATAGCAGGCT GGTTCTCAGA ATCTTATAGT
44701	TAGTTGTTAT TACTTAATTT CCCTAACCAC CCGTTCTTTA CTTTTTCTGT
44751	AAAGGCTGGA ATTTTTGAGT AGACCTTATT GTTTTAACTC TATTGTTCTG
44801	TTTGTTTTCT CCAGTTCATG GCTCTTCATT ATCACTGGTG TCCAGCACTT
44851	CTTCTCTTTA CTCTACAGTA AGTAATGGCT GTTAAGAAAA AGCTTGTGCT
44901	TTTGCCATGC ACACAGATGA TGAAATAGAT CATTTTACTG TGAACAGATC
44951	ACATTCATCT ATGACTTGCA CAGGAGTTGT GTAGCAAAAT AACGGCATAC
45001	TCTAAGCTGC CCAATACCCA ATAAAGTGCC AGGTGCTCCA CCTGCCATTC
45051	TTTGGTCACT TACATGTGCT TTCACTTGGC TTTTTGTGCAC TCATCATAAT
45101	COMPTICATA AMACCIACIG AGGTATGACT
45151	TOOMSTOTET GRAMCCATGT ATGTAGTCTG CTATACTATC ATTTTAGTAA
45201	TGACGAGTTG TCCATGTTTT GTTCTTTGAG CCGTGACTGT TAATTGTTCT
45251	ATAGTATTTT CTTCTCATTT TTTATTTTTA AGTTTATTGT TGAGAGGATT
45301	ATCGAAGGGT AAAAGCAGTA AGGGTAAAGG GTAAAAGCAT AAAAGAACCA
45351	GAGATGTTTT TTTTTAAATA TACCTTTTGA AAGAGTGTGA TTTTTTTAAC
45401	TTTTATTTT ATTTATTTT ATTTATTTAT TTATTTAT
45451	GTCTTGCTTT GTCACCCAGG CTGGAGTACA ATGACACAAT CATAGCTCAC
45501	TGCAACCTTG AACTCCTGGG CTCAAGTTAT CCTTCTGCCT CAGCCTGTCA
45551	AGCAGCTAGG ACTACAGGCA CGCACCACCA TGCCCAGCTA ATTTTTAAAT
45601	TGTTTTAGAG ACAAGGTCAT TGCTATATTG ACCAGACTGA TCAATACCCA
45651	TGGCTTCAAG CAATTCCTCC TGCTTTAGCC TCCCCAAGTG CTGGGATTAC
45701	AGGTGTAAGC CAGCACACTT AGATAGAAAC TTTATTTATT AAGAGAAAAA
45751	TACCAGTGTT TCAAGTTCTT TTGCAAACGT GTGACATTAT AATTCATTTT
45801	TGACAAGGAG AGTTTTTCTG TTTGGTAAAT ACAATTCTAT CTTTTTTAAA
45851	AAAGTAGCCT ACAGGAAGTT ATATTTTATG AGTGAGTCTT TTTAGAGCTA
45901	GGTTAACAGT GAGGTATATT TAAAAGCAGC CTACTGAATC TCAATGGGAC
45951	TTGAGTACTA TGAATAAGCC TTAATCCTGT ACTGTAAGGT TCATGAAGAG
46001	TTCATAGCCT CTGCTGTCAC TGATCAACTG AGCATCATGG GCAGTATTTT
46051	TTTCACTCAT TATCATTAGG TTCAAATGTT TGTTTGAACC TTCTCTTTAT

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46101	AGATTAATCT CATATATTTA CTGCCTTACA TAGTCATTCA AAATCTGACT
46151	GTTATTGGCA GAAGTAATAT TTTTCTAATC TCTCCTTTCA ATGATTAAAA
46201	TTACCCATAG CTTCTAGAAA TTAAGAAATC ACGATTAGTT TTTAGGTAAA
46251	TGTACTTTTT GTGCAAATGG ATAAAGTGAG GAATGTGTAA ACACACATGA
46301	AAAAAACACA TAAAAGAAAT ATATTAAGAC TTAGTGTTCC TCCTGTTGGG
46351	CCAGCACTGC CATTTGTTGG GGAATTGTAT TCTGATTTAA ACCATTGCCA
46401	TTTACATCTA TGTGTAACAT CAAAAGATGT AGCATCATTA TTATTCTAAA
46451	TACATACAAT AATTAATATT TGGATAAAGC TACCTTCATG AAACCTAAGA
46501	AAAACTAAAT TAAAAAGAAA GAAAGAAAGA AAAATACACT TAGATAGAAG
46551	AAATAAGGTC TAGTGATTGG TAGCACAATA GAGTGACTAT AGTTAACAAT
46601	AATTTATTGT ACATTTCAAA ATAGCTAGAA AAGAAGATTT GGAATGTTCC
46651	TAACAGGAAG AAATGATATT CTTCCTAAAT GAAGAATGGG ATATTCCACT
46701	TTCCCAGATT TGATCGTTAC ACAGCATATG TTTGTATAAT ACCACATGCA
46751	CCCCATAAAT ACATACAACT ATTGTGTATC CCAATATTAA AGATTTTTTT
46801	GAAAAATTTA TTCCTCAAGA AAAGGATCAT GAGTTTAAGA AAAAACAGAT
46851	TACTAGTCTA CCAGTGTCCA GTAGACCTTT CTGTGTTAAT AAAAGTGTTC
46901	TGTATCTACA CTATCTAATA TAGTAACTAT GAACCATATG TTGCCATTGA
46951	TTATTTGAAG TATATCTGGC AAAGAGATGA ATTGACTTTT TTATTTTAAT
47001	TAATTTACAT TGAAATAGCC ACATGTGCCT AGCAGCTACT AGATTGGATA
47051	GTGCAAGTTT ATAGAGAACA CAAGGGGTAC ATTTGTAGAT AGGAGTGGGA
47101	TGTCAAAATG ATGAGGATAA TTAGAAAGCA TACATGAGAA ATATTGTTTT
47151	AAGAGTAGAA TATGAAATGG GAACACAGAT TAAAATAGAG TATGTATATA
47201	TATACATATA TATGTGTATA TATATACATA. TGTATGTGTA TATATACA
47251	TATATATGTG TGTGTATA TATATATT TATAGGCCAA TATATGGAGG
47301	TAGGGTATAT CCTAGTGTTA AGTGAGTAAA GAATGGATTA GGTGATCGAG
	CCACATGAGA AGGTGATATT ATTAGAAAAT TGAAAGTTGT ATTTGAGATG
	ATGAAAATGA TATATTTGAA TTGAAAAGTA AACTGTAGTA AAATAATTCA
	AATAAATGAA TATTTGGGGA ACTACTTAAG AGAAAAATCA TAAAACATGA
47501	GGAGTCATTC TTTCCCCAGT CCGCCATGAT CAGGCCTTAG GATTTAATTG
	GCAATGAGAA AATACCTATG AAAATGCTTT TTAAACTATC ACATGAAAAA
47601	GCAATTTATT ATTTTTCATG CCTTCTTAAT AACTCTCAAT AGAGATTTAG
47651	TTGATTTGCA TTTTTGCCTG GTTCAATCAA GAAATTATCG CGTGACATCA
47701	GGCAAGTTGC CAAATTTCTT TGGACTATAC CTATAAAATA AAATTTGAAA
	ATATTAGCTA GATCTAACCC ATTTGTCTCC GGATGTCTGC AAAGTGGTTG
	GĄĄATCACAA GCCTAACCTG ATCTGCAGAG GTGTTACCTT TGGCAAACTT
47851	ATGGTTTTTG TGTTTGTTTT GAAATCTAAG GCCAAGCGCG GTGGCTCATG
	Fig. 2 $(cont.d.26)$

Fig. 2 (cont'd 26)

47901	CCGGTAATCT	CAACACTTTG	GGAGGCTGAG	GCGGGTGGAT	CACTTGAGGT
47951	CAGGAGTTCG	AGACCAGCCT	GGCCAACATG	GCAAAACCCC	GTCTCTACTA
48001	AAAATACAGA	AATTAGCCCG	GTGTAGTGGC	ATACGTCTGT	AATCCCAGCT
48051	ATTTGGGAGG	CTGAGGCAGG	AGAATCGCCT	GAACCTGGGA	GGCTGAGGCT
48101	GCTGCAGTGA	GCGCCACTGC	ACTCCAGCCT	GGGCGACAAA	GCCAAACACT
48151	GTCTCAGAAA	ААААААААА	AAAAGGAAAA	GAGGGAGAGG	GGAGGGAGAG
48201	GGAGAGGGAA	TCTAAGCCAA	CACTGTGAAA	TATTGTGAAA	TATGGAGCTT
48251	CTACCTAAAA	ATTCAAAATT	TTAAATTCCT	TTTAAAAATA	ATTGGAATAT
48301	CTATGGAATA	TCTAGCAATA	CTAAGATGAA	ATTCCTCTGG	GTTTTCAGTC
48351	ACCTGTAATT	GACACCTTTA	GATGTTGGCA	TGGGCTCTCA	GGAAGCCACA
48401	GCCTCCACCA	ATGCTTTTCT	TCCTGACACT	GAAGCTAAAT	TTGGGTGGCT
48451	AGTTTTCATT	GTGCTGTTGC	TTTCCTCATG	GGAAAGAAAT	ACCCTTTGCT
48501	ATTTATATTG	CTGTCAAATG	GGAAAATGAA	AGACAGCCAA	GGAAGATCAT
48551	GTGACTATTT	AAATACTTCA	AGTCCATTTA	TTCTTTATTA	GCCTTGTCCT
48601	GTTAGGCATT	TAAATTTTTG	ATCCCTGCAA	TAGATGTTTT	TTGATTAACT
48651	GTATATTAAA	AACTATATTT	AACCTGTTTT	GAATTTGAAT	TCTAAATTGT
48701	ATTTTTTCAT	GAGAGCAAGT	GTCATTTTTG	ATTCATTGTG	GATTGTTTAA
48751	CATGTTGCCT	AACAAATAGC	TAATACTAAC	GTCATAACTT	TTTAATTAGT
48801	AAATTTGAAT	GGATAAATGG	CCACTTATTG	GCTTATAGAA	ТАААТАААА
48851	CATTTTTATT	CAGTCAAGTG	TTTCATATTT	TTTATCATCT	CCAGGACATT
48901	GGGCTTGCTC	AAAACCATTG	TTAAAAAAAA	AATGGCAAAT	AATCCAGTTC
48951	CATCATGATA	TCATTAATCC	CACACCTAAG	CTACTGAAAA	AAATATATTA
49001	ATATTCTGGC	TCATTGCTTT	ATTTTTATGG	TAACACCCAC	CTGGTATTAA
49051	TAACCACAGA	GTACGAAAGA	AGGCAAAGGT	TAAAGCAAAT	AATAGTTTTG
49101	AAAAATTGGT	AGTGAAAAA	GTCATGCTAT	ACGGTATGTA	TATAATAGAT
49151	ATTTAATGAT	TATGCTTGCT	ACTAGTATAT	GTAACAGGAC	TATTATAGAT
49201	ТААСААААТ	GCGGTGAGTA	TATTTCTTGA	TTATTTTTA	AAAGAATAAA
49251	TTATTATTTA	AAAATACATG	AATTATTTAT	TGATTCTTGA	ATCTTTACCA
49301	GCTTTCTATA	ATTCTAGGAA	GCCTAGAAGC	AGAATTGGGC	AGGATAAACT
49351	GGCAAAAAAT	GTAAAAAGTA	GGCCGGGCAC	GGTGGGCTAC	AGTGAGTCGT
49401	GAATGCGCAG	TGCACCTGAG	TGATAGATCA	AGATCCTGTC	ТСААААААА
49451	ААААААААА	AAAAGAAAGA	AAGAAAGAAA	AACAACAACA	AAAACAAAAG
49501	CAAAGTACTA	GGGAAAACTA	ATAGACATAG	TTACATAGTT	AATTGTGCCA
49551	ТАТСТТТАА	GGCAATGAAA	CTTTTATCTT	AATATTCCTT	GCTTACTTTT
49601	ТАТТСААААА	CCAAACTGTG	ТАТААААССТ	ТААААТТАТТ	AGGATCTAAA

49651	AAATAAAATC	TTTCCTTAAA	ААТСТААААТ	TGAGATGTAA	ATTATTCAAG
49701	AGTGCTTTTT	AAAACAGTTT	TCTTATAAAG	GCTATTAGGA	TTCTACCACT
49751	TAGCCACTTT	ATTATTTAGC	CACTATATTA	CTAAGTTTAC	ATATTTTTAA
49801	AGGTAGTGAA	AATATAGGGA	AGACAAAGCT	CAGGTTAAAA	GAGTTTCTGG
49851	САААТААААТ	ATATCCTGAT	GGTTAGACTA	CTTTGCTTTA	TGTTTTCTGA
49901	AAGAAAAGCA	GTAAAAAACA	GTTCAGGTAG	TTTTGTGTCA	ATTAATCTAG
49951	AACTATACCA	AAAGTAGACA	TAGAAAACGA	GAGATTGTTT	TTCAGCTTTG
50001	GATCTGCTTA	TGGCAATAAG	CAGACTTGTA	CTATTCAACA	ACATTATGCA
50051	TTCTTCAACT	TTTCCCAGAA	TAAGGGAGCT	TCCCAAATGC	AATGGTGCAC
50101	ATAACTCATT	TTCTGGCATT	TTGCAGCCCA	GCATGAAGAA	GAAAAACAGA
50151	GCTAGGAGTT	TTCTGGAAGT	CAAGTCAAAA	ACACCCTGCA	AATTCCTATG
50201	GCAGTCCTCC	TTTCCATAAG	CTGCATAGCC	AAAAATGTTT	GCCAGACACT
50251	TTTATCACTG	GGTGTTTCAG	TGTTTTCATT	GTTTAAGCGT	TTTGCTGACT
50301	TGTGATAATT	AAAATTATTA	ATAATCATTA	AAGAAAGAAA	AAGTAGAAGT
50351	AAATAATGTT	AATTATCTGT	GGTTATCAGT	AGAGGTCTGT	ATGTTACCCC
50401	AGCTTTATTT	GACATTGTTT	GTGATCAGTA	AATCACAGAA	TAAAATTCTG
50451	ACATCTAAAC	CTTGGCTAGA	GGTCTCTATA	ATTTTATGGA	GTCTGTTTCC
50501	TACAATCTGT	ATGAAAGATA	CTTCAATATT	TTAAGTTTAC	ATGCACCCAT
50551	CTTTTTTAGA	GTATAATTTT	ATAACTATTT	GGTTTATGTT	GCTTATGATT
50601	TACATCTTAG	AGTCTTTTAA	TTCTGTCTTT	TGCTTAAAGG	AATATTATGG
50651	ATCAAATGAC	CTATATTTTA	AGAATACCTT	ATGGTTTATA	TATTAAGAAA
50701	CATTTATATA	AAATTCTAAA	GTAACTTGCT	TGTACTATTT	CAATTGAATA
50751	ACTTAATGTA	TTTCATTCTA	TTCTTCTCAT	AGTAGATAAT	AAAAAGTACA
50801	TCATGATTAT	TGTATTCATT	TATACTTGTG	GAATTAATTG	AAAATAGTTT
50851	TTATAGTTAA	AGTCTTTCTT	TTTATTGTTT	TACAGGCTGA	AGAAAAGGCT
50901	CATTCAGAGG	TAAAAAAAA	TATGCAATAT	TTTAATATTT	TCTATTTTAG
50951 -	TTTGCATTCA	TGATGAAATT	AGTCTTGTGA	CCACTAGAGG	GCTCTGTGAT
51001	ACAATAGCAG	AACTCCACAG	GACTGCTGAA	GTAAGGCAGC	TAATTGATAA
51051	ATGGTCTTTG	ATATTGCCTC	TTAAAAATAA	AATGAAAGGA	AGTTTGTATA
51101	GCAAGCTGTC	CTTTCACATT	CTAGATTGAG	TCTTAGCTCA	ACACCTAATA
51151	AGTTTTCTAT	AATAGTAAGC	ACTCATTAAG	TCATTGATAA	ATGAAGGTCT
51201	ATGGTCTTCC	TATTTTATTA	CAGTCTTTTT	CCCACTCCCT	GTAAGACCAT
51251	CTACACAGGA	TAATGGTTGA	AACTTGGGCA	CCAAGCCTCC	ACAACACAGG
51301	ATACTAGCAT	CTCAGACTAT	CTGTTTTGTG	TCATTATCTT	GTTGCCTCTA
51351	ACTGCCATTT	TATGTGTGGT	GTGTCACCTA	TTGTTCTAAT	CACATATTTC
51401	ACAAATACAT	ATTTGGTTGC	ACTCGTGAGC	AAATCAAACT	GCATTCAGGA

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51451	AAGAATACTA	TTTTAATTTC	CCTTGGTAAA	ACATTTGTCC	TGGTCAAAGA
51501	GAGCAGGAGG	ACTTTAATTA	TGACTTTATT	CAAGGTGAGG	TAATGGCTGT
51551	TTGATTGGTT	TACACTGAGG	CAATCAGACA	ACAGAGAAAA	AAAATGCCTT
51601	AACAACAGCT	TTTGCAAAAG	TATTCCTTTC	CTTTGAAGTC	TTATTTTATT
51651	AGCCTTTAAA	AATAAAATTT	GTGCTATGTT	TAAAAATATT	TGAAAATTAT
51701	TGATTAAACC	AATTTGTCTT	TATAATCTCT	GAACCAAAGA	GTGGATATGA
51751	TTTTTAAAAA	TCAAAGTGGT	TTTÀTTTACA	TCACATGGAC	ATGACAAAGC
51801	TTCTAACACT	GATCATAGTA	TAGCTACTGA	AGCATCGAAA	TGCTACATCT
51851	ATTTGCCTTA	GTAGTAGTTA	TTCAACTCCC	CTTTTATCAT	TGATGCTGTA
51901	TCATGAGTTA	TGGTTTAAAA	AAACAATTTC	AATCACTTTA	CAGTTTCCTG
51951	GATTATATTT	TAAAGATACT	GGAATCATGT	AATAGAGACT	ATTTAATTTG
52001	AGAAATGCTC	TTTGAGTTTG	GATTCATTTA	TGAATAAAAT	AGACGCTGTA
52051	TTTTCTGAAA	TCATTCATAG	TCATTATCTT	ATAAATGTAA	AGCAAATGTT
52101	ATTTTAGACT	GGGGTGTATC	TGTTCCGGAA	АААААААА	ACAGGAACGA
52151	AGTAGAATCA	CATTTGGTGA	AATTATATAA	GTGTCTACTG	TTTCCAGCTT
52201	AGAGTTCTCT	ACTTTGTTAG	AGTGTTTGAG	TTGACCACCA	TTTATTTTCA
52251	ACAAAATCTA	ATGCCCGGGG	CAAAAACTAG	ACAGTTAATA	AACTATGTCA
52301	AGAATTCTCT	TTCAAACTGA	GACAGCATTC	CAAAAGTTCA	ACTACAACTA
52351	TAGATAAGAT	TTGTTTTTGA	AGAAATGAGA	AGCATCAAAA	GTAGAATGTT
52401	TAACATCCAA	GTAACTGAAA	TCCCTTGAGA	CTAGATATAT	ACTTATAGAA
52451	CCTAGTGTCA	GATTGTTATA	AATGTTCTAT	CCTTATTAGT	CACAACATGA
52501	GACTTGCAGA	ACAAACTGCA	GAAAGTGCTT	GAATTAAAAC	TTTAAACATG
52551	ATATAATATA	TCCTTACCCT	TTTCTGTTTC	AGTTTTATTG	GAGTGTGAAC
52601	ТТААСТАААА	AGAAAGATAC	CTTAGAATAT	ACATTATATT	GGTTTATCTA
52651	ATTAGTTGCA	CCTATCATTG	GTTTTTTCCC	CTGATTTTTA	AGATGTGGAT
52701	AAGCTATAAA	GCATCTCTGA	GCTAATAATA	ACTCACTAAA	TAAAGGTCTT
52751	GATAATACAG	ATTTGGGAAG	GCTTCTCTGC	AGTCATTGAA	ACTCCAGCCA
52801	ATAACAATTT	AAATGTGAAC	TGATTAAATG	TTGAATTAAG	CCCAAGTTTT
52851	AGTGATTGCA	GGATATTCCA	TAGCCTTTGA	GAAGTTTTCA	AACTATGAGA
52901	AATTAAAATG	TACAGAGGAA	AAAAAAACCT	AAGATTTTCT	GAAAAAGAAC
52951	ATGGAGTATC	TTTTACTAAA	AAAGAACAAG	AAAAATATGT	GTGTATATAC
53001	AGTTTTTATA	AAGAAAATAT	TTTTCTACAG	TTTTATTACC	ACAGTTTTTC
53051	TAGAAGGAGA	AGAATCAATA	CAGAGGGTAA	ACTGCTCTTG	AGTCATTTGC
53101	CATTTGAGGG	ATGGCAAATG	GAGCAAGTGA	GCGTACTTTG	ATTTGTAGAT
53151	TAGAGTTTGA	CACATAACAC	TTTGCTTTTG	AATGACATTT	GCTTGTTACT

Fig. 2 (cont'd 29)

53201	GTGGAGTCA	G TGTTCATATO	CTTTATTTTC	AGGAGTTGCT	GCTGATACAA
53251	TGGGGTTAG	A ATGAGCTAA	A TACAGCATT	GCTTTCTTGC	TTTGAATTCT
53301	GGGTTTTAAC	TAAAAATCT	A CTTGCCTATT	CCATTGATT	TTTTAATTGC
53351	ATTCAGCAAZ	TCCATAAACT	r GCGGAGAGAG	CTGGTTGCAT	CACAAGAAAA
53401	AGTTGCTACO	CTCACATCTC	AGCTTTCAGO	AAATGTAAG1	CACTTCATTT
53451	TTAAAATT	TTACAACAA	TTTTTATAGA	GGAAAATGAA	ATCATTTAG
53501	TAACAAACTT	C ACAAATTTTC	AGTGCCTGAT	ACAGACTTAG	ATTACCAACT
53551	AGCAGGACTO	ATAAAAAGTT	AACATTTTT	GCCTACTCAG	TAATAAAATG
53601	TAAATCCAAA	CTGATGAGAG	GCAGCAATAT	GGTTAAAATG	GCTTGTTGTT
53651	TCTAATAAGA	TTGGAAACAA	TAGTAACAGC	CATATGGGTT	ACTTCTTTTC
53701	TTGTTTGCTA	TTTTTATTAC	TCCTCTTGCA	TAAGATTCCC	TGACAATGTA
53751	AGAGGGGTTG	TTAGTGTTTG	ACTTTGGAAG	ATAAAATATT	CCTGTGCCCA
53801	GCCTCCTTCA	TCTCAATGTA	TTGAACAATT	TGTTAAGCAT	CCAGTTAATT
53851	CTAAAATATG	AAATTAGGTC	TAAATAGGGA	TAGCTTAGCT	GCACTGTGGA
53901	TGAGATATGG	TTTGCTCAAA	AAACCTTGGC	AGCCTTCTCA	TAGCAATTTA
53951	AAAGGGTACA	CTTTTACTGG	CACCAGAGCA	GCCCAGGATG	GCAGAAATGA
54001	TGACAATGAA	GACCGTCAAT	TAAATTAACA	TTTACTGAAT	ATCTTCCACT
54051	GTGTCAGGGA	GCACTCAGAG	TAGATGCAGA	ATGATAAAGG	AGAAATGTGG
54101	CACTGTTCCC	AGTCCTGAGG	AGCAATGGTG	TTAAGAACAG	CAGTGAGGGG
54151	TAAGGAAATG	CCTGCTATTT	TGCCATATGT	CTTACCTCTC	TCACTCAACA
54201	GTCCTTTGCT	CAGTTCTGCT	GCATAGCTTT	GGGCCTGCTC	TGTGCCTCCC
54251	CACCCCTCCC	ACTGCTCCTC	TACTGAGTTT	TTCTATCTCC	TAGACAAAGC
54301	ATGATATGTC	AAGAGTGAGC	AGGTGCAGAC	CCACAGTGTA	AGACTTGAAT
54351	AAGAGCCATT	TTTAAATTTT	TTTTAAGCTA	TCATTGTGCA	ATATAAATTC
54401			TTCACAATGT		
54451			AAATTTGGGA		
54501 -			GTGTTAGGAG		
54551			CAATATGAGA		
54601			ATAGTCCAGA		
54651			GTATGAAATA		
54701			AATAATGTAA		
54751			AGGCTCAATG		
54801			TCTTGAATGA		
54851			AGCTCATCAT		
			GTGGAAGATG		
54951	AATGTAATGA	TGCTTATTGT	CTTCAAAAGA	АААААСТААА	ATGGTATTTC

55001 ACATTTTTT GTTTTTGTTT TTGTTTTTTT TTCTCTGAGA ATCTCATTCT
55051 TACTCATGAT TATTGGTTTC TTGTGTACCA TTTCAACATT TTTCTATTAT
55101 ATGCTAATGT GTATATATAC TTAATACACA CGTGCAAAAG CTTCCACACA
55151 CACACACAC CACACACAC CACACACA CACACATACA CACACATACG
55201 GAACCAAATT CTAACATAGG GGAATAATCT TCGGAGTGAA CTCTGTGCTG
55251 CTGTTTGAAA ATGGAGATAT AATTTTAGAA AGGTTCCTGC AGTTGGCTAC
55301 CCACCTCGTC TGCTCTAATT ATGCTTGTCA CACTATTTTC ACTGATGTGT
55351 TTTCATGACT TTAGGGCATG AATTCTCAGC TGGGTGTTAA TATGACCAAC
55401 AAAGGGTGAA AACAGGTTCT TGCATTTTTT TAAGTACTCT TTTTATGTGA
55451 AAAGCACAGA TATGCAGATA ATACATAACT GAACATCCAG CATATCTGTG
55501 GCTTTAAAAT ATCACGAAGA AGAGCACAAT TAGGGAAAAG AAAACATCTA
55551 TAGTGTTTCC CTAGGGGAAC AATCATTTAA AAAAAAATAA AAATAAGGAA
55601 CACAGACTAG AAGCAGCAGT GCCAAATAGA TAATTCATGC TAGTCTTTGT
55651 GTTAATTTAA AAAGTGCTAG TCTTGGAGAC AAACGCCCAA ATTGCTCTAG
55701 GTTCCACTCA GCTGTATGTG TTATCATTAG TATTAACTTT TGCACGCTGA
55751 TGGGAGACTG ATATATATCC TGTTTTATGT TCCTTTAAAC AATTTATAAT
55801 GTAATTTAGA AACCTTCTCA AATCACATTA GATCCACACA AAAACCTGTA
55851 CATAGCAGCT TTATTTTTA ATAGCCAAAG AAAGGAAACA ACCAAAAATA
55901 TCCCTTAATA GGCCAGTTAA TAAACAAATT CTGATACATC TATATCATGG
55951 ACTACTACTC AGCAATATAA AGAAATGACT ATTGATACGT GCATCAACTT
56001 GGGTGGATCC CAGGGGTATT ATGCTGAGTG AAAAAAGACA GTTATAGAAG
56051 GTCAAATTTT GTATAATTCC ATTTATATAA CATTCCAGAA ATGGCAAAAT
56101 TAAAGAAACA GAGAACAGAT TAGTGATTGC TAAGGGCTAA GGATGAAGGA
56151 GAGAGAGGG TAGTGTGACT ATAGGAAGAG GGAGATCTTT AGTTTTGTAT
56201 TTTGAATGAG ATGGCCATCA CATGAATCCA CATATGTCAA TCTATTAATG
56251 TAAATCAATA TTGTATTCCT GGCTTTGATA TATAATATAA
56301 TATATAATCA TTGGGGGAAA CTGGATGAAG GATACAAGGG ACCTCCCTGT
56351 ACTATCTTTG CAACTTCTTG TGTATATAAT TATAAAATAT ATAATGTATT
56401 AAAATGTATA AAATAATATT TTAAGTATCA GATACTGATC TTTACTCAGT
56451 ATATGAAGTG TTCTATCATA ACGTAACATG CTTTTCCTTT ATTTGTGGTA
56501 TTTTAGTTTC AAACTAAAAT ATAAATCACC TAAAGATCTA CGACAGTTCT
56551 TTTGAAAAA AATCTTGCTT TTAATTTCCC AGGAGTTTCA ACCTTAATCC
56601 TCTCTTTAGT GTTTCTTTAT TTGGTAGTGA TAGGGACTAT CAAAGCTTCT
56651 TACCATCAAA TACATTTACT GACTAAAAAT AGAAAAATAA TTTACATTGT
56701 AAAAATGTAC AAATTGAATG ACAGTCAAAA GGTACAGGTA ATGAAGATAT

56751	GCATTAACAT	CTACTTTTAA	AAAAAGTTT	ATTAAAATTC	TCTTTTAGAC
56801	TAATGCAGTA	TCTGGGAATT	TATATAAATA	GATATGTATA	TAAATGACTA
56851	TTAAACAATT	TTAATGTCAG	TTATATTTTA	AACATTTTAA	TAATATTGTT
56901	ATAACTATGG	GGGTAAAATT	TTGTATATAT	CTGAACATTT	TTGTTCTTAA
56951	GGAAATAATC	ATTTTTACAT	ATCCAGGAAT	TTGAATTACT	CTCAAGTCAC
57001	СТАТТААТТА	CAAGTCATTT	TGAACTCATT	CATTTTCTTT	GTGTTTGCTT
57051	TATAATGTCA	TTTTAGATTT	CATGCATCAT	AATCAGCCAT	CAAATAATTT
57101	AGTTAATACT	TGATTTTTCC	TCAGTTGTAA	GAAGTGCTGT	GTTTAAATTT
57151	CATTCAGAAT	GTTTCATTTC	ATCTGAATTA	ATATCTGTTA	ATGTATGTAA
57201	TATACACATA	TTTTTAACAT	GCATGTACTT	AAATTGATTA	TAGGGACTTG
57251	GTAAAATTAC	TTATTTATAG	GATATTTTAA	ATATAATCAA	GGATTTTTTA
57301	AATCTACAGT	TCCCATTTGA	AAGTAAAAGT	AAGTCTTTGT	TTACTAGTTT
57351	GTTCACAGTA	CAAGTAAACT	TTCTACCTTT	TGGTTAAATG	TGAGTGCAGC
57401	CCCCACAGTG	AGAAATTGTT	ATATTAGAAC	TCTAATAGCT	ATAATTTATA
57451	GGGATGAATT	TCAATGAGTT	TGGTTCTAAG	AAATAATCTG	TTGGTTTTAA
57501	CAACATTTTT	AAGTATCAGA	TATTCATCTT	TACTCAGTAT	GTGACATGTA
57551	CTCTCATAGC	TTACGTGCTT	TTCCTTTATT	TGGGGTGTTT	TTTATATATT
57601	AATTGGTATA	TCGCATATTT	AAACTTGGCA	TAATTACATT	TATATGGACT
57651	CTAAACAATA	ACTTGTATTT	TAATTTTTAA	ATTTGAAATG	CATCTATGTC
57701	TCTGTTAAAA	TGCATTTCTT	TCCCTTTGCC	CAAATGGGGT	ATGGTAAGTC
57751	AAGAGAGTCT	CTAGTTAGCT	CACCTCTCAT	TTGACTGGCA	GAGTAAAGCC
57801	CTTGTTCAGT	AGAATGTGTG	TTAAGCCTTC	CCTCCCTTTT	GTAAAGTTGT
57851	TCTGAACAGA	GCTGCATAAA	ACCACAGGTA	AAGTGTTAAG	CTGATTCTAC
57901	TAGCATGTCC	TTAGAAAGGA	GAGCGGTTAT	ATTGGCAGGT	CCTATTGCCT
57951	GGCGTTTCTG	ATCAATAACT	CACCAACAAA	CAGAAAACAG	AAGCCGCACA
58001	AGGAAAGGCA	GAACTAAATA	AATGGTAATA	GCAAACAATA	AGCCAGATAG
58051 .	CCTCTGGCCT	CTCGCCCACA	CCTTAAGGCA	GCTGGGTCAG	GTGGGATGCT
58101	TTTGTTTGTC	TTTTAACGTA	TTTTCTTTAC	AAATCTCAGC	CATTACATAA
58151	TTTGGAAATG	GACACAAGGC	TAGTTATTAC	TAACATTTTT	AAAGACATTA
58201	CTGAATGAAT	GTGTAAGAAA	ACAAAAGGTC	CTTTTTGCCT	TTCAGCAGAT
58251	AAGTCTTTTA	ACCAAAAATC	TCTTGGGTAT	TTTGAGATTG	TGTTCTACTT
58301	CTTTGCTTAT	TTAATATTT	САТААААТТТ	GCTAGTTACT	CTTGCTTTTT
58351	TGCATCTCTT	CTAAGAGAAA	ACAATTGGTG	САТАТТАТТА	ATGAGAAACA
58401	CTTCAGTGTT	TGGACAATTT	TTTGTAGTGG	AAAAGAAATG	TGAAACTTTA
58451	TGTTGCAGAA	TCATTCTTGG	TTCAACTAAC	TACTAATTTT	AAAACATAAA
58501	GTCTTAAATA	TATATAAAGT	TTATATGGGT	TATATAAA	TACATATAAT

58551	ATATGTTTTA	TATTTATACA	TAATATACTA	ТАТАТТТАТА	CATGATATAC
58601	TAAATATTTT	CCCATATAAA	TAATAAAATG	CTCTAGGCAT	ATATGTGTGT
58651	GTGTGTATAT	ATGTATATAT	ATATATACCT	TCATAACATA	САТАТАТААА
58701	ATACTATATT	ATATATACTC	TAGGTATACA	TATATGCCTA	TATATGCACC
58751	TATATATTTA	ТАТАТТАСТА	TATAATATAT	AGTATATATT	ACTATATATA
58801	СТАСТАТАТА	TTACTATATA	ATATATAGTA	TATATATAGT	АТАТАТТАТА
58851	TAGTAATATA	TTACTATATA	АТАТАТАААТ	ATATGTGTGT	ATATATATAT
58901	ATGCCTAGAG	TGTTTTTAAT	TTGTCAGTGG	GCTGTCTCTG	TAATCTATAT
58951	GAAGAAATAA	AATGTAGACG	TTATGTATAA	TGATATTTCA	TCTTGTTGTG
59001	TGGCATCATA	GTAATTCTCT	TTACATATCT	ATTCAGATTA	CTTTTGCACC
59051	AGCCTAATAC	ATTGTATGAT	TCCAAAACCA	AAGAGAGTAT	GGATTGAAAT
59101	GATATTCCCT	TTACTAATAC	TCAGTCTTGT	CTATTTTATT	ACCTTTATAG
59151	ACTTCACCTA	ACACAAGTCA	GGGGATATTT	ATCATCATAT	TAATACAATT
59201	TTACTCTGAC	CTTAAAATTA	TGCAACTGCT	AAAGGAAAAA	TCAGAACCAA
59251	ATAAACTGTC	ATTAACAACC	CCCCTGAAAA	TCCATATTTT	TTAAAAGTCA
59301	TTTTATCAAG	TCTCTCAGAC	AAGATGTGAT	ACCCTATAAG	TTTAATCAGT
59351	TTTACTTTCC	ATTTTCTCTT	CATTAAGGTG	ATAAAGATTA	TCATTAGTAG
59401	AAAAATTTTC	CCTTATTTGC	CTCCTTTTCC	ATTTACCCTA	TTGAGTGAGA
59451	AATTTAGCCT	CTCATAACTT	CTAAAGTAGC	AATGTTAATC	TGATAAACTA
59501	AACCAAGGTG	AGATAAATTT	AAGACAATAT	TTTTTTTCTT	CAACTTTTAA
59551	GTTCTGGCGT	ACATGGGCAG	GATATGCAGG	TTTGTTACAT	GGGTCAACAT
59601	ATGCCATAGT	GATTTGCTGC	ACAGATCAAC	TCATCGCCTA	GATATTAAGC
59651	CCACCATCCA	TTAGCTATTC	TTCCTGATTC	TCTCCCTCCC	CTAACTCCCA
59701	CTGACAGGCC	CTAGTGTGTG	TTGTTCCCCA	CCATGTGCCC	ACGTGTTCTC
59751	ATCGTTCTAC	TCCCACTTAT	AAGTGAGAAG	AAGTGGTGTT	TGGTTTTCTC
59801	TTCCTGTGTT	AGTTTGCTGA	GGATAATGGC	TTCCAGCTCC	ATCCATGTCC
59851	CTÇCAAAGGA	CATGACCTCA	TTCCTTTTTA	TAGCTGCATA	GTATTCCATG
59901	GTGTATATGT	ACCACATTTT	CTTTATCCAG	TTTATCATTG	GCATTTGGGT
59951	TGATTTCATG	TCTTTGCTAT	TGTGACTAGT	GCTGCAGTGA	ACATAATGCA
60001	TGCAGGTATC	TTTATAATAG	AATTATTTAT	ATTCCTTTGG	GTATATACCC
60051	AGTAATGGGA	TTACTGGGTC	AATTTCTGCT	TCCAGATCTT	TGAGGAATCA
60101	TCACACTGTC	TTCCACATTG	GTTGAACTAA	TTTACTCTCC	CACCAACAGT
60151	GTAAAAGCAT	TCCTTTTTCT	CTGAAACCTC	TGCAGCACCT	GTTATTTCTT
60201	GACTTTAATA	ATCACCATTC	TGACTGCTGT	GAGATGGTAT	CTCATTGTGG
60251	TTTTGATGTT	ACCCTTTTTT	TTATATGTTT	GTTGGCTGCA	TGACTGTCTT

60301	CTTGTAAGTG	TCTATTCATA	TCCTGTCTAT	TCATGTCTTT	GCCCACTTTT
60351	TAATGGGGAA	GTTTGTTTT	TACTTGCGCA	TTTGTTGAAG	TTCCTTGTAG
60401	ACTCTAGATA	TTAGACCTTT	GTCAAATGGA	TAGATTCCAC	AAATGTTCTC
60451	CCATTCTGCA	GATTGTCTGT	TCACTCTGAT	GATAGTTTCT	TTTGCTATGC
60501	TGAAGGTCTT	TAATTAGATC	CTATTTGTCA	ACTTTTGCTT	TTGTTGCAAT
60551	TGCTTTTGGA	GTTTTTGTCA	TAAAATCTTT	GCCCTTACCT	ATGTCTTGAA
60601	TAATATTGCC	CAGATTTTGT	TCTAGGGTTT	TTATAGTTTT	TGGATTTTAC
60651	TTGTAAGTCT	TTAATCCATC	TTGGGTTAAT	TTTTGTATAA	GGTATAAGGA
60701	AGTGGTCCAG	TTTTAATTTT	CTGTATATGG	CTAGTCAGTT	CTACCAGCAC
60751	CATTTATTAA	TTGTTTTTC	AGTTTCCCCA	TTGCTTGTTT	TTGTCAGGTT
60801	TGTCGAAGAT	CAGATGGTTG	TAGGTGTTTT	TCACTAACAT	AATCATAACA
60851	TACATTTCAT	TGAAAACAAC	ACGACTCAAA	ATGTTCTTTA	GTAACCAGTT
60901	ATAAGTTTTT	TTGTGCATAA	TTACAAACTG	CCATTCTAAT	CATAAACATT
60951	TTGTGGTTAC	TTATAGCTAG	AAAATGTGAG	TAATATAGTT	TATACAGCAT
61001	ACTCTTTACA	ATCCCGATTT	CTTTGTCAAA	CTTTAATTCA	TATTAAATTG
61051	ATAAAGTATA	CACAAAGGGT	AAAGGAGAGT	AATTTTCTTC	AAGTTTCACA
61101	TTTAAGGATT	CATAGTAGAA	TGATTAAACC	TTACATTTCT	CCACTATAAG
61151	GAGAATTAAA	ATGGAAATAT	TGAGTAAAAT	CTTACATTTC	ATTTAGTAAG
61201	TGCTAATAAA	GGGTTTCTGC	CATAATTTTC	CTTATTTTAA	AAGAAAACAC
61251	ACAATTTTAG	TTTTAGGTTT	TAGTAACCAA	TTTTATGGGC	ATAGTGGGAA
61301	TATTTCTAAC	AGGTTAAACT	GAAGTGACCA	TCATGGGCAT	ATATATATAT
61351	TTTAAATTCA	CATATATGAA	TACTATACAG	TAAAAACTAA	CTTATGCTAC
61401	ATACCACATG	GATGAATCTC	AAAACCCATG	TAAAGCAAAA	GAAAACCACA
61451	AAAGAATCAT	GCCATTTGAT	TACACTTGGG	TGGTTTTTAA	AACAGGCATA
61501	TCTAAACATA	GTGCTTTAAA	GTGTAAGCTT	GGGTAGGAAA	AACTATAAAG
61551	AAAAGCAAGA	AAATAATTAC	CACAGAAGTT	ATGTAGAGGT	TATCTTTGGG
61601	GAAGGAAGAG	GGAATAATAA	GAGAGGGACA	AAGAAGAGCT	TCTTGGTTCT
61651	TGÁAATGTCC	TATTTCTTGA	CTTGGCTGGT	GAATGCATGA	ATGTTCACTA
61701	TGTGATAAGT	CAGGGGGCTG	TTTTCATTTT	GTTCACTTTT	ATATATGTGT
61751	GGATTTTTCC	ACAGTTGAAA	AGGTAAAGTT	CAGGTGTGGT	GGCTCACACC
61801	TATAATCCCA	GCCAACACTT	TGCGGGGCCA	AGGTGGGAAG	AATTACTTGA
61851	GGCTAGGAGT	TGGAGAGTAA	CCCAGGCAAC	AGGGTGAGGC	ACTGTCTCTA
61901	CAGAAAATGA	ААААААААА	AAAAAAGTAG	CTGGGCATGT	TGGTACATGC
61951	CTATAGTTCT	TGCTACTTGG	GAGGCTGAGG	CAAGAGGATC	ACTTTAGCCC
62001	AGGAGTTTAA	GCCTGCAGTG	AACTAGGGTT	GTGGCACTGC	ACTCCAGCCT
62051	GGGTGGCAGC	AAGACACTGA	GTAAAAGAAT	ААААТАААТА	ATTAAAAGTT

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62101	AAAATATAGG	AAAAATGAG	CATAGCCTTA	TGCTAATTTT	TCAGTTACTA
62151	GGTCTGATAT	CATCACATTC	CTTGCTTGTC	ATTGAAAATT	TTTTAAACTA
62201	TGATACTTTT	TTTTAGTGGT	ATTTATCCAA	TTAAATCTGC	TAACAAATTT
62251	GGTGTATAAA	TCTCAAGGGT	AAGGGTATGT	GGAGAGTGGG	TGTGTTTGTG
62301	TGAGAGAGAG	AGAGAGAAGA	GGGGGAGGAG	AAAAAGAAGG	AAGAGGGAAG
62351	GAATGGAAAA	AGATAATAAA	GAGTTGTTCT	GATAGATTAA	TCTTTAGTAG
62401	ATGTATTCCC	TACAAATTGT	TTTTCTCCAT	ATTGCAGTGT	CAGGTAAAGA
62451	AAGGCATCCC	AGGATGAATT	CAGAGCTAGG	AACATGCACC	TTTGTATCAT
62501	AATGCTAATG	GAAGGAACAT	GTACATTCTA	ACTGTTACCA	ATAATGGAAT
62551	ATATTTCCGT	TATTAAGTAA	TAAGCTTTAA	TTCTTTGTAT	TTTTGTGATC
62601	CATTTGATAG	TAGGTGCCTC	AGCATTTCCA	CTCTGCTATA	AGTACATGGA
62651	GATATATTT	ATTTAAGTCA	TCTTATTCAT	GTCTTTCAAA	AAGAAATTCA
62701	TTTTTGGCCA	AGGATTTCCA	AATTTTGCCC	CATATATAGG	TATAGTTTAT
62751	TATAGACTTC	GTTTGCAAAA	TATTAAATCC	TTATATCCTT	TTAGGGACAC
62801	TTTAAAATAA	TATAAGTTTG	AGATAATGTA	CTTGCAGTTC	TACCTCAGGC
62851	CGTGGTGAGA	GATTGAAGTG	CCTCTTCATT	TTAACATTTT	GGGTTCAAGT
62901	TGTTGCATAA	GGGCATGCAA	ATGGAAACTG	GCCTATTTTT	GAGCTTTAAT
62951	AAAATCGTCA	AATACTTCTT	AATCTTAAGA	GTTATAGTTA	TGTACTACAA
63001	TATGTATAAT	TCTCTAATAT	TTAAAACAAA	ACCTGAAAGC	CACAAAAGCT
63051	TACTGTGAAA	TAAAATGTGA	TGGAATATTA	TTTCTAACTG	GCTTACCTGT
63101	ATTTCCTTCA	TTGAAGGGAA	TATGAAGTAG	AAAAGCCCTT	TTATTGAAAA
63151	GAGTTTGGAA	AGTAAAGATA	ACTCTTTTCA	ATTCAATTCT	TTGTAAGTAG
63201	AAAAGAGTA	AAGATAATGT	TTAGCTGTCA	GCAGATGTCT	GACACTTGAT
63251	GGAGCGTATC	ATTACAATAG	AGCAGCTAAC	AATATCTGCA	AAGGTCATCA
63301	TGAAAGTATA	AAAATGAGGA	ATATTTGTCC	ATTGACCATT	TCAGTGACCT
63351	CTTTTTGGGC	TTTAAGTCTA	AAAATCTTGG	CAGATCAGAA	CTTTATATTC
63401	GGÇATTTTGA	GTGTCAAATC	TCTACATGAT	GTGCAAGTCA	GAAGGAGTTA
63451	TTACTTGCAA	AATACCATCT	TCTTTCAGAA	GTTAAACTCA	CATTAAATGC
63501	CAGGAGACTG	AAACACTGAT	TTTAAGAAGA	CAAAGTTTAG	AAAAGATGAA
63551	TGAAAATGTG	TGTTAAAGAA	GAGTCACCAG	TCAGAGCTAA	CTATGATAGT
63601	CATAGTATTT	AAAGAGTTGG	AACACATGAA	ATTAAGCATT	TTGTAAAATG
63651	AAGGCTTTTC	ATCCATCCAC	ATAAGATTCT	GACATTTAAA	CTATGTTTCT
63701	TCCATTCTGT	TCACAGGCTC	ACCTTGTAGC	AGCTTTTGAA	AAGAGCTTAG
63751	GGAATATGAC	TGGCCGATTG	CAAAGTCTAA	CTATGACAGC	GGAACAAAAG
63801	GTATGTTCAG	AAATTGCCAC	TGGAGACTGA	AAGAAGACAG	CAAATTGCAT

63851	3 CC 3 MMCMM 3	, , , , , , , , , , , , , , , , , , ,	. CAACCMCCMM		mmca\ aca==
					TTCCAGGCTG
63901					ACCAAGGTGG
63951					AACGTGGTAA
64001	AATCCCATCI	CTACTAAAAA	CACACACAAA	AAATTAGCTG	GGCATGGTGG
64051	CGGGTACCTG	TAATCCCAGC	TACGCAGGAG	GCTGAGGCAG	GAGAATCACT
64101	TGAACCCAGG	AGGCAGAGGA	CGCAGTGAGC	CAAGATCACA	CCACTGCACT
64151	CCAGCCTGGG	AGACAGAACA	AAAAAAAGAG	ТААТААТААТ	TATAATAAA
64201	TCAATTCTAT	АСТАААТТАА	AACAATGATA	ATACCTTTCT	TTTCAGATTT
64251	TAATTTAAAG	ATTTTATCAG	TTTACTCCAT	ATTGGAACAC	ACAAAGGCAA
64301	ACAAAATCCT	TGCTGGGCAG	TCTATTAATT	TACTTCTGGA	TGGAACTAGT
64351	AAAAGAATAC	TGAATGTTAA	GAAAGAGAAA	CAGTCACATA	AGAGAATATT
64401	CTGGGGGCAA	ACTGTTATGC	AGTTGACAAG	AATCACACTT	TGATAAGAAC
64451	TTTCACAAAT	ACATGGTCAC	TAAATCCAGC	TATAGGGCAT	GGCTGTAGGC
64501	TAAGACACAC	AGGAAGGATG	CCTGGGACTC	TGCCAAGTAA	GGGACTTCAG
64551	GTTACAGÇAG	CTATGAAACA	AAGGCCAATC	CTGTGTAATT	TTGAAATAAC
64601	AAGAACTAGT	TGCCATCTAG	GGATATCACC	TTTGAAGAAA	AGTCATTTGT
64651	TATATCAAAA	TACTTAAAAT	GAACCTAAAG	GATTTTATGG	TATGAAAGAA
64701	GGTATACCAA	AAAGAAAGGA	ACGGAGAATT	TAGTTCACGA	AGACAAATGT
64751	ATTAAAAAGG	TCCATACTGC	ATAGAAAGCC	TGGTCACCTT	TCCTGTGATG
64801	ACCAGTTAGC	TTACTTCTCT	GCTGTTAGTC	CAGTGGCCTT	AACTTCCTTG
64851	GATAGGTATC	AGAGATAGGT	GAAACCTATA	GAATTCTATG	GAGTGTGTGT
64901	GTGTGTGTGT	GTGCGTGCGT	GTGTGTGTGT	GTGTGTGTAT	GAAAACTGTA
64951	AATGTGCATA	AATGATCAGG	TGTCCAGAGC	TTTCATCTAA	TTCTCAAAGA
65001	GACCCATTAT	ATCAGAAGTT	TTGGGTATTT	TCAAGAATGC	GTTCCTCTAT
65051	CTATCCATAG	GAATGGCTTC	AGTTTTGTCT	TTAGATTCTG	TAAGTTATGT
65101	GATTAGCTTT	ACAAAAGTAG	TATGTATTAC	CAAATTTTGT	CACTTTACAA
65151 -	AAGTTTATTT	TTAAAACAGA	ATGAATAGTT	CAATGAAATC	AAAAGAGTAA
65201	ATCGAATATT	CTTATAATTG	CCAAGTATTA	TTAGCACATT	GTATTCTCTC
65251	TCATATTCTC	CGTATACCCT	GCCCGTGAGA	GAGAATATTA	TCCATTCCTG
65301	GAAAATCTGT	TCTAGCACAG	СТААСАААСТ	CCTTTTGAAA	САТАААТТТТ
65351			CCCTCCTTCC		
65401			CCTCTTTTCT		
65451			TTCCCCCTCT		
65501			CTATGTAATA		
65551			GCTGACGGGA		
65601			TTCTGGCTAT		
*					

Fig. 2 (cont'd 36)

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65651	TCTTGAGCAA	GTTTATCTA	CCTTTCTTGA	ACCTCAAATT	CACCTTCTTA
65701	AAAGTGGGGA	TGATAATGAC	TACCTTGTAG	GATCACCATO	G AGGAGTAAAT
65751	CAGATACTGT	TATCATGTCA	CATGCTAGGG	GCTACCAAAA	AATATTACCT
65801	TCCTTTACAT	TTCTCTTTTT	CCCTTGAAAA	TTATAAGATA	ACACCAAATT
65851	CCTCACTGGG	CATATACCAA	GCATATTGTT	GGAAATGAGT	GTTAGAATTT
65901	AAGTCTCAAT	ATCTTTAATA	AGTCAAAATT	AATAGAATTT	TTGTCCTCCA
65951	CCCAATATTT	TCTTGAACTC	TGTTATATCT	GTAAGTGAAT	TTTCTCATAG
66001	AAACATACAG	AGAATTTTCT	САТАТАСАТА	TAGAAAAAA	TGTAGAGGTA
66051	TGTTAATGTA	TAATGCCTAT	GATTAATGCC	TGAATATTTA	AAAATAATTT
66101	CTATAACATA	AGAGATTTTA	TAATGTGTCŤ	ACATAATCCT	ТААААТААСА
66151	TTGCCAAAAT	TATAAAATTT	TCTCAGAAGA	TATCAGAATG	TCTCATATTG
66201	TCCTTATCAC	TTTTTTAACT	GAAAATAAAA	TCACTTCTTT	TTGAATTGCA
66251	AACTGTATAC	ACACAACAAT	CATGGTTAAC	TAGTTTATTA	ATTTGAGATT
66301	ATAACTTGCC	TATTCTCAAA	GTGATATTTA	AAAGCCTATA	AAATTATTTG
66351	CAATGTGAAA	TGGTATAATT	CAAAGACAGA	ATCTAATTAA	AACCAGTAGA
66401	ATAATGTATA	TAACAATATA	CCTCAGCCTA	GATAATTACT	ACTGCAAGGC
66451	ACTGAAATGA	ATTGAATTTC	AAGGAAGCTA	TGGTACAAAG	GGAGATTGTT
66501	AGGTGTGTTT	TATTCTCATT	TTCTGACCAG	GAGAGCATAA	TTTAGACTGA
66551	GGAGAAAACT	CTTTGGCACT	AAATTCAAGG	ACGAATTTAT	TGCCAAGGTT
66601	TTTAAATTGG	GGTCATGGAA	TAACAAAAGA	CAAAATCACT	GTTCAAATAG
66651	ACATTTCTCT	AAAAGCTAAG	GGCATAACAT	TTAATCATAT	TTCACTAAAG
66701	GCATTTCTTC	AGGGAGCTGA	GATAAAAGGG	TATATTGCTC	TCTGGTGATT
66751	CAACAATCCT	GAGAAAAGGC	TTGTGAAGTA	TAGAGCAGAG	ATTCTTAAAC
66801	TCCCTTCCCC	AAGTTATAAG	TTTCATTTGT	CTATATAGTC	ATTCATCAAG
66851	TTTATATTGA	ATTTGTGCTC	TTCTAATGAC	AAAACAGTAC	AGACAATATA
66901	GATATAGAAT	GATAGATATA	GGTCTATATC	TATAGACATA	CCTATCTACT
66951	AGAACTCTAA	AAGCATATTA	TACATGTATG	TAATATTCCT	CATGGAGTTT
67001	ATATTTCTCA	ТАТАТАТСТС	ATATATATGT	ATCTCTTTAT	CATGGAGTTT
67051	ATATTTTAGG	AGGTCACAGA	TGATAATAAA	AATATAATTA	AAACAGGCCA
67101	GGTGTGGTGA	CTCACACGTG	TAATCCTAGC	ACTTTGAAAG	GCCAAGGCAG
67151	GTGGACTCCC				
67201	AACCCCATCT	CTACTAGAAA	CAAAAATTAG	CCAGGCCTGG	TGGTGGGCAC
67251	CTGTAGTCCC				
67301	GGGAGGTGGA				
67351	GGGCAACAGA	GCAAGACTCT	GTCTCAAAAA	AAAATATATA	TATATATAT

67401	ATATAATAT	A TATATAAT	A TATATATTA	TATATATA 7	А ТАТАААТТАС
67451	ATATTTATA	A ATATGTAAT	TATATATAT	TAATATAAT	Г ААААСАТАТА
67501	GGATTTCAG	G TGATGATAA	CACTACTGA	AAAAGTAAA(	G CTGAGAATGA
67551	GGATACTGAG	AAGCTGGTT	GGAAGCTAA	ACACAAAGT	ACAAAGGCCA
67601	AGGTGGTTAG	C ATGTTCTTG	TTACATACTI	TAAAAATGG	TAAACTAAAT
67651	TAAGACTCAG	ATTCTAGTCT	TTGGGCTTCA	CAGTGTGATT	TTCAGCAATC
67701	ACATGGCATT	T AATAGCCTGA	AACTACATCA	AAATTGTCAT	TTGATTTATA
67751	GACCAAAATA	A ACTCCCTTGA	ATAGAGAGGG	ATTCACTCCT	AACACTTTTC
67801	CTATTTCCAC	ATGCCAAATA	ACACGGAATC	TCTTGCCAAA	TTTGTGTGGC
67851	AGAACACTG	TTTTATATAC	TTATAGCCTG	GTAAGAAAGA	AAAGACATGT
67901	ATGAATAACT	TAGAAGGCAG	AAAATTATCA	TGCTATTAGA	CTCAGTACAA
67951	TGTCATGTGC	CATTCTCAAAG	GAAACATCTG	CAGAGGCAGG	AGAATTGCTT
68001	GAACCCTGGA	GGTGAAGGTT	GCACTGAGCT	GAGATCATGC	CACTGCACTC
68051	CAGCCTGGGT	GACAGAGAGA	GACTGCATCT	САААААААТА	ААААТТАСАА
68101	AAATAAA `	TAAAAAATAG	TGATCAATCT	GGCAGCATTT	TCTGAAAGTT
68151	AAGCAGTATT	CCCAATAGCT	GCTAAAAGAA	GACATGTTAT	АТААТАСТАА
68201	GTCTGTAAGT	AGGTAAAAAT	TAAGAGAATT	GTTAATGTGC	TTGCTGGGGA
68251	GTGAAATTAT	CTCTAGGCAT	TACCCTATAC	CTAACCTAGG	ACTCAGTAGA
68301	CTATGATATT	GGCGTAGTTT	GACCAAGAAT	TTTATCCTGA	TTTCAGATCG
68351	TTTTCTCTTC	ACCAGCACTT	CTTCACCAGG	ATTATATGAA	AAAATTAAA
68401	CCTGATGCCC	TGAGGCATCC	ATTATATGTG	CTGAAATAAC	TTCTTTTCTC
68451	ACCATCTAGA	ATGGTACTAG	CTATGTACCA	CTCTTGTCAG	AATCAAGGAA
68501	ATTGCTACTC	AAATCATTGT	GCAGCTTAAT	TTTCTCACAG	AAGGCCAGTT
68551	GAGAAAGGCT	CAACTTCTAG	GAATCCAGCA	AACTATATTT	TTTATAAGTA
68601	ACATTTTTAC	AGAACTACTT	CTAAATCCTT	GTGTTCAAAT	TTACTAAAGC
68651	TATATTCACA	GCTAAATATT	TCAGAATTTA	AAATTTAAAA	GACTTTCAAA
68701	TTAGTTCCCT	GTAGCTGTCA	TGCCAAGGCA	ATTAGAACAT	ATGTTAAGGT
68751	ATGAGGGGTT	TTTCTTGTTA	GAAGGTCAGA	GCAGGGCAGA	GAAGTAGCCC
68801	CTTGTATGAG	TGATGAAGCT	CAGATATTGA	CTCCTATGCT	AACCATAAAG
68851	CCTAGTAGTT	TGCTCATTTG	TTACCTCTCT	GAAACATTTT	TTTGGGTGAC
68901	TACAAAACAG	GAATTGAAAC	CTTCAAAATA	AGGGAATTTG	AAACCAAATC
68951	TTTGAAAATA	GATAATGCTG	СААСТАААА	TTTAGTTGAA	TAAGATTTTT
69001	ACATTAACTC	TCCCTAATTT	ACGTTATGAT	ATTTGCCATC	TAGAAGTGTT
69051	ТТТААААААТ	ATATTGCTGG	AGTCAGATGA	TGCATCCATT	AATCTTTGGG
69101	GCATAGAATA	ATGTGAATCT	AAAATTTTCA	AATTATTTAC	ACTACTGGTA
69151	TTTGGTCAAT	GTAATTTATT	TGAAACTAGA	TGCAATAGGG	ATGGCCAGGT

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69201	TATTTCAGT	GAACAACTAC	G CAAGACTTCA	GATGCATGG	r ggagtgggga
69251	AAGGAGGACC	TGTTTAAGG	A AACTAGAGCT	GGGAAGTGT	G AGATTAACTT
69301	AGTGCCAATG	TGAGGACCT	A AAAAGCAGA1	GTGGTGGAA	A ATTTAAACAG
69351	GCTTGCCTAG	AAGGTCAAG1	TAGTTGATGA	CACTTGATGA	A GATTGTCCCA
69401	AGCTTTGGGA	TTCTCAACA	A AGTCTTTGTT	AGTGAGAAA	TTGGAAAGAG
69451	ATCAGGTATA	GTTAAGAAAC	TGGGTTGGAA	AGGCCACCAC	GAAAGGCGAA
69501	TATTCTGACA	CAAAATTTGA	TCATTTTATT	TGGAAGCATI	TCAAGCCTGA
69551	CCTGAACGAA	TTGTTTAGCC	TCAGATACAT	GCATAAAACT	GTGAAAAGAG
69601	ACATTGACTC	AATTTAGCTT	CTTTAACATG	AGAAACTTTC	GTGGAAAACT
69651	AGAACTTTAC	AAGCTCAGCI	GGTGTTGGGG	GCATCATTAT	CTTGAATAGC
69701	TCACTGGAGG	AAAATGAAAT	CTTAGTTTGG	TTCTCAGGTT	TTAAAATATC
69751	TATCATTTTT	GAAAAGTGTG	AAGTAACAAA	ATATGATCTG	ATTATCTTAT
69801	TCCTAAAATC	CTTTGCAGAA	TTATCCCAGC	CTCAATCTTC	TCTTTAGTAT
69851	TTAATGAGAA	TAAGAAACTG	GAAATGACTG	AATTGGAAGA	GTAGACTTTA
69901	AATCCATÄTC	TTGATGGCAT	ATACATTTTT	CAGTTTTTT	TCTAAATGAT
69951	TAATGAGGAT	TCTCAAAACT	TGAGTATCTT	CTATGTTTCC	CTTCAACATA
70001	AAGAAATTGT	ATGAAAATAT	TTTAAAAATT	TCTAATGATT	TTATAGTTAG
70051	CTATCTTGGG	AATTCATTTC	TAATCATGTA	CCTCATCCAA	ACTCCCCACT
70101	ATGGACAAAA	АТААААТААА	AATTATTAGT	TGCATCTGAA	GGCCACATTA
70151	CAATTTCTAT	GCATTATAGA	AACCTGAGAA	AATGTATCTT	AAAAAATAAA
70201	TGTGAACAAC	TAACCATAAT	TATGAAGAAG	AAAAATGAAA	ACTAGAAATA
70251	AACTATTGAA	AAATGTCTAT	GTATCAGTTA	AGTTTTTATT	TTAAAATTCT
70301	TTATGTTTAT	СТСТАТААТА	CTATTGGGAA	AGAGAGAAAG	GAAAACCTGA
70351	CTTTGTTCTC	ATCCAAAGGA	GGTGATTCCA	CTGATTTAGC	CAAAATAAGA
70401	CTTCCTGGTT	АТААТАААТА	ATAAAGTTTT	TGATGTTTTT	TATATGGTAC
70451	CCCACTCACT	AGGTGATCAG	ACACCCTCCT	GCAAAAAAAA	AAAAAATACG
70501	TATGCAATAA	AGTTAAAGTT	TTATGTTATT	CTTTCAAGGG	GAGAAACATC
70551	TGTTTAACAC	AGACCAGAAT	ATTTCAACAA	AGTCATCCCA	ATATTTATGG
70601	AGATCATAAA	TCAAGCGAAA	AAATATATTC	ATCAACAACT	AAACAAACTA
70651	CATTAAATAG	TCTCAAAGCA	CATTTTCACT	TTTTTTCTGA	CAGGAAAACA
70701	GGTTTCACAA	GTGTGGAGAC	ATTTTACCAT	GGCTTTTAAC	AGTGAGGAAG
70751	GATGTTTAAA	TAAAGGGAAA	AATTATATGG	AAAGCTCAGA	GAAAAGAGAT
70801	GGGTGTGGCT	TGAGTGACAA	GGTGAGAGCA	GATCTCATTA	ACTGAAATGA
70851			CAAATATGGA		
70901	GAACAGATTA	TGTCAATCAA	TGTAGAATTT	GGCTATCTTT	TTAATCAAAG

70951	AAGACTATG	G ААТАТТТА	T AGGTGTTTG	С ТТАТАСТСА	A AGTTTTAAAG
71001	AAATAACAG	T ATGAATTTG	G TTGAACTAA	TTTTTTCAT.	A GATAGGATTC
71051	TCCCAAGTT	A TATAGCATA	T ATATTTCTT	'A ACTAGTTAT	r cttccttta
71101	CATATATTG	T GCCACATTG	A GTAACAACT	A ACCTGCTAA	P AGCTATTGGT
71151	TTTTAAAAG.	A TAATTAATA	T TAGAAAGTG	A TCATTTTC	r gtttcatatt
71201	AAACATGAT.	A TTCTGAAAA	A GCAACATTG	C CTGAATGTT	TACATTTAT
71251	CTTTTTGAA	A ACAGGTTTT	A TAAGAGATT	T CTTGTGAAA	A GCTGAACGTT
71301	CTGACACTG	A AATAAGTCA	G CTAACTCAA	A GCTAAGCTT	ATTTTTTGAC
71351	ACTGTTGGC	A TGAGGTCTC	A TTCCCAATT	T TTTCATTTA!	AGCCACAGGC
71401	AAATGTTTT	A ACAGATTTT	A ATCCGTAGT	A CAAGCATTAI	TGATCTTAAA
71451	TTTAAGGAT	A AAAACCTGAT	TTTAATTAG	A ATTTAATATO	G CATTCTAGTA
71501	TTTACGTTGT	TAATTAATA	TTTACATTC	C ATGATTCCAC	TATGTACCAT
71551	TTATTTCTT	TTGAATAAA1	TTCCAGTAG	G AGCAGAATAA	ATTTTCAGTG
71601	AATATTTTAT	TTCTTGGGGG	ATATTTTAX	A ATGGAAAATA	TATTAAGTTT
71651	CGGTAAAATC	TGTTGCTAAT	TTGGCAGTGG	ACAGAATATA	AAAATTGGAG
71701	AGACTGAGTC	ATTATGATGA	ATTGGGTCTG	ACTTTTGTCA	TGACACTGGA
71751	AATTTCCCAC	AAATATTATA	TTCTTCTTT	ATAATAAATA	TAGTCGAAAT
71801	GAATTGCAGT	' CAAGTATTTG	AAGACCCATC	TATAAATTTA	GGCGGTTACT
71851	GTTGATTTTT	CATTATGAGA	GATTCTTCCA	CTCATAAGCT	ACTAAAAGTA
71901	CATAAAGAAG	GTCTGGTTGT	TTGTTTTAAA	TGTGACTGTT	CTCTATCAGG
71951	AAAATGTCAG	GTATCCGATG	AAAATAGATA	TATGAGGTGC	CAGGTATCTA
72001	TTCCAAACTT	GGATATCACT	TCAATTAGCA	TCATCTTTT	AATTTTTTTT
72051	AGTGTCTAAG	GTTAGAATAG	TCACCAGATA	TTCCCATGTA	TGAAGCAATT
72101	TTCTGCAAAG	GCCGCTGTGG	ATGATCTTTT	TAAAATATAT	ATTCTGGGAG
72151	ACATTGAGTA	AAGAGAAATT	ATTTACCAGA	GAATGAAGAA	CCGAGGCCCG
72201		TTTCTGCCAA			
	_	GGAATTCTCC			
72301		TACCACCAAG			
72351		CTATACTGAA			
72401		ATTTTATCTT			
72451	TCACTTAAAT	AATTATGAAA	GTTCAAATTT	GTGCAAATAT	TTTTATTGGG
72501		ATTACTCTAA			
72551		TAAGCTGCTT			
72601		TATATTTTAT			
72651		TCTCCACATT			
72701	ATGTAACATG	ACTTTGATAT	GGCATCAGAA	TTTAATAAGA	TGACATTTAA

72751	TAGGAATTAG	GGGTAAGTT	CAGGTTTTAC	ACTTAAATA	AAATAATCAA
72801	TTTTGCAGGC	ACAAAATACT	TCAAACAAAA	TCTGAAATC	A TTCATTTGAC
72851	AAAACTTCAG	GTTTGCAGTT	GACAATAAAT	' ACAATACAA1	GCAACAGTGC
72901	AATAGTGATA	TCTAAATATC	TAATGTAATC	ATAGGTAATA	TTAGTAAGTG
72951	TGTTATCTGA	AATGAGTGGT	GTGATATCCT	GCTTTACTT	GTACTGGTGA
73001	GTTCTGGGTG	CCACCTTTGA	AAGGAATAAA	GACTATTCAT	ATCTCTTTTA
73051	TAAGACAATA	AGAAAAACAA	ACAÁACAAAC	AAACAAAAA	CCACCTCCTT
73101	TACTTTAGCT	GAGAAAGAAG	TTATTAGGTA	CAGCTTGACA	AGTTCAGCTA
73151	AGCATCCAAA	TCTTCCAGGA	GGTTGTTACT	ACATAAAATC	AAACCTTTTT
73201	AATTCAACTA	TGAGCAGGGA	GATTTTATTT	TTCTTTCGGG	TACTAAAGCT
73251	TCCAAACTCT	GTTTATTCCA	CAGGAATCTG	AACTTATAGA	ACTAAGAGAA
73301	ACCATTGAAA	TGCTGAAGGC	TCAGAATTCT	GCTGCCCAGG	CGGCTATTCA
73351	GGGAGCACTG	AATGGTCCAG	ACCATCCTCC	CAAAGGTATA	TTTAGAAATC
73401	ATTTCATTTC	CACCCAATAT	AATAGGCATC	TATTTTATTT	ATTAATTACA
73451	GTAGAACŤGC	ATTTACTCAG	TGTCACTGTG	CATTATTAAT	ACATACTAGT
73501	TGTATTAATA	GTTGTATTAA	TACATACTAG	TAGTATTAAT	ACATACTACG
73551	TTGGTATTAA	TGTGATCAGA	ATCCTAGAAT	TTTAGAACAG	TGACTTCCAT
73601	TATCAGATAA	ТТТТАААСТ	GATCTTAAGA	AATTTGGTTC	TATAGTTGTA
73651	TACACATCTC	TCTACTTGAT	TCAGTGGAGA	TGGAGATGGA	GTGGTTGGTT
73701	AATACATGCA	TATCTGACTT	CAGGCAAAAC	AAACCCATTA	ATGAGTATGA
73751	TAATCTAGAT	CTGTATTTAA	AAATGAAATA	GTCAATATGA	TGATATAGTA
73801	AGCAGTGGGC	ATTGGGAACA	ACTTTTCCTG	GATGGAGGCT	ATAAAAAGGT
73851	ACATTTCCTG	TAGATAATTT	TGAAACAATA	AAAACAACGG	GTGAAAGGTA
73901	GCTCTGTTTT	AAATTATTCC	TATGCTTAAG	СААТТСТААА	CAATGAAAGG
73951	GGTATTTCTG	CCACTGCCCC	TACCCCTGGG	TTCACCACTG	AAGAAATGCT
74001	CATTATTAAT	ATCGTGTCAT	TTTTTTCCTT	TACATTGGTT	CTATTTACTC
74051	ATTTCCTGAC .	ACTTTTCAAT	GGCCTTCAGT	GAGCTCAGCT	CTTTCCCAGC
74101	TTAAAAAATC	CTGTCCTAAA	ACATGAATGC	CTTATTATCT	CTCTTTTCAT
74151	TTCCAGAAGA	ATTCTGAGAA	AAATTTTATG	AAGTCTTTCA	ATGTCTTCAG
74201	CCATCTTTAG 2	ACCACTGGAG	TGTAGCTCCT	TTTCCCTCCA	CTCCACCAAA
74251	ACAATGCTCT (	CCAGGATCAG	CAGAAACTTA	CATGACACTA	AATTCAGTAA
74301	AACGTTTATA	ATTCTTATTG	TATTAGACAG	ACATGGAAAC	AGCATTTGAT
74351	GCTGATATTC A	ATTTCTTCCT	ATGTGAAACA	TCCGGTTTTT	CTAATGTTCG
74401	TGACATCATA (	CATTCTTGGT	TTTTCTTCTG	TTCCTTTGAA	ATATTTTTTC
74451	AATATTTCTT :	TTGTAAATTC	ACTCTTTTGT	ATCCATTTGT	TAATTGTTGA

74501	ТАТССТААСС	<b>ТСТСТТССАТ</b>	ጥልጥርልጥጥርጥል	ጥርርልጥርርጥልጥ	ттаааатата
74551					GTGCTAATAG
74601					' ATATCCAGCT
74651					TTTGCATCTT
74701					GACCTGCTGC
74751					CTTCCATTTA
74801					ATTGAATAAA
74851			•		GATCTGTTAA
74901		,			CTGAACCATG
74951					CCTGCTTTAC
75001					ACATCTACAG
75051					CAGCATGACA
75101					ATTCATAACC
75151					GTTGTTGCAT
75201					TATTCATAAG
75251	TTCTTTATGA	ATTGTGTTCA	TTCCATTTGG	AATATTCTAC	CTTGTTTGAT
75301	CAGCATAAAG	ACTTTTCGAG	ACACTGCAGC	AGCAGTGAAC	CTAAATATGT
75351	TTCCTTGACC	CCTACATTGA	ATGACACCCC	CTGTGATATG	TTTCTGGAAG
75401	CAGCAATACT	TCCCTTCTTA	AAATTACATT	ATACTTTGGG	GCTTTTATTT
75451	AAGGTATGTC	TTTCCTGATT	TACAATAGTA	GAGCTTGTTT	TTTCACCCTT
75501	TTGAAAGACA	TCAAGATGCC	CATGATGATG	TCTTGCATGT	AACAGGGGTT
75551	TATTTGAATT	TTTAAAAGAA	GAATAAAGTA	ATTTTTAAAT	GAATTTCAAT
75601	TTAAATTTTA	GGAAAACAAT	TATATAAAGT	GAGATATGCT	TAAATTGAAG
75651	GACAAAGTAG	TTCTGTAGGG	GCTACTTCTT	TCAAGACTTT	AGCAACTTTC
75701	CATGTGGGGG	AGTGATTTAT	GTGATGCATG	GAAAATTACT	GCATATTTAA
75751	AGCTTATCTT	AGAGCTATAA	TAAAGCAGCT	TATGTTCTAA	ATCTTCATGT
75801 -	CGTAAATAGG	TCCAGAAGGG	ATTTAAAAAG	CCTTAATCCT	TACTTTAACA
75851	CAGCACAAGT	CACTGAAGTG	AAACTTGCTG	AAAGGATTCC	TTTTATGTTA
75901	GGCAACAGGT	AGCTGAATAT	ATCTACAGAA	ATTGAAAAAT	TGGAATTCTT
75951	TTGCTCAGAA	ATGTGGGAGG	GGTGGAGCTT	AAGGTAAAAA	ATAACAGTTA
76001	$\mathop{\mathtt{ATATCTAAAT}}_{\cdot}$	TGATCAAGAA	ATATGAAAAA	ATAATTTGCT	AGGTTTTAAA
76051	ACTAACAAAA	ACCATGGTTA	TAAAGGTTTG	ААТАТАТАТА	GGATAGTTAG
76101	ATTGTATTTC	TGTAATATTA	AAACTCAGCA	AATTTAA	TGAACACAAA
76151	GTGATTCTTA	TCACATTGAC	CATTGACATT	ACATGGAAAA	AATAGTCAGT
76201	TGGACTAATT	ATGTGTCTTT	CCATGGGTTA	TTAAGGTAAT	TGTATGGCAT
76251	TATTTAAATT	ACTGGAAATC	ACATTGAAAT	TCACTTTTAG	AGGCCCTTAA

76301	AATATTTCTG	ТААТАТАТАТ	ТТТТААСАТА	TGATCTTAAA	AGATATATTT
76351	GGAATGACAC	AACAGTTTTA	TAGACAGGCC	TGACTATCAC	ACAACCACAC
76401	ACCAATTTGT	GAATGTGTTT	CTATTTCCTC	TAAATTAATG	CATCACATTC
76451	ATTAACAAAG	TTTGATAAAT	GACTATAGTC	TATAATAAA	TATTTTTGTT
76501	TACAAACATA	TTTAAACACC	TGCTATTAAG	TATAGGCATT	ATCAGATCTT
76551	AAAATACAAA	GATTTAAAAA	ATTACCCTGT	GGTCATGGAG	CTCACAATCC
76601	ACTGCAAAAA	TAATGTTTGT	GATÄAGAAAT	TTGAAAGTTG	AAGGTAATAG
76651	AAAATTTTAC	CTTTATTTT	CAAAATGTAC	CATTGCTTTC	TAAGTCACTA
76701	CTTCTGTGTA	AATATGGAAT	TGTTTTTCCT	TAAGATATAC	CAAATATAGT
76751	TGGATAACGC	ATGTATTAAA	ATTCTGTCAG	CACTAAGTTG	TTTTTTAGAC
76801	ATAGTGATAG	GCAAACATAG	TTATATTGAA	TGAAAAATTA	GAATCAAATT
76851	TATTAAACAC	TGTGTACTGA	TTGATACCAC	ATGCCATATG	CTTGTATAGC
76901	AATACAAGGT	TTGGAATTTA	TAATGGTAAA	CAAAATAGAT	ACGGTCTTTG
76951	TCTCCATAGA	ACTTTTAGTC	TAGTGGGAGA	GCAGAAGGTA	AAGGAATGTA
77001	TGTGATCÅTT	GGTGAAGCTG	AACATGTATA	CCCAAACAGT	TATAAGTTCC
77051	AAGATGGACA	ATAATGGGTG	CCATAGGGAA	GGAGGGTACC	AAGGAACCTA
77101	CTGGAGGTTA	CATAGGGAAG	ATTATTCCAA	GGTAGTAATA	TTTAAGTGAA
77151	TATCCAAGGA	ATAATTGTCA	ATCACTTTAT	AAGTACTGAG	GGAGGAGTAT
77201	TTCAAAAGAG	CTTTGAGGCG	GAAAATAAAT	TAGTTCCTTT	ATGGAACTAA
77251	TGTAAGGAAA	ATACTAAGCA	AACATGTAAT	AAGAAGAACA	CGGTTGATGA
77301	GTTAAGAACT	GACAAGATTA	CTGAAGGATT	GTAGGCCATA	TTTAGAAGTT
77351	GGATTTTTTA	TCTATTCTTA	TTAAAGTGAG	AAGTTATTGA	AAGGTCTTAA
77401	GTGGGGGAGT	GATGATGAAG	TTTGCCTTTT	AAAAAGATT	TTTCTAGCTA
77451	TTGTTTATAG	AATGGTTTGA	AGATGAATAA	GTCCAATAGC	TATACTTGCT
77501	GTAAAGGTTA	TGTTGGTAGC	TTGAACTGGG	GCAGTGGTGA	
77551	GGGAGATGGA	AAATGACGAG	TGAACAAACA	CATACCTGAA	AATTTAAGTT
77601	TAAAAATAGA	CCTCTCCATT	AATTCAGATT	GCTGATATTC	ATTCGGTTAG
77651	CCATTCTTTA	CTGAACTTTA	TGATGCCCCA	TATACTGAAT	ТАААТАСТТА
77701	CAAGCACTAA	AAAAGAAATT	GTTAGGGAAC	AGTAAAATGC	ATTTCCTTCA
77751	TTTCACAATA	TTATTAATAT	TATGGCTTTG	CTAATCTTTA	TTGGTGAATG
77801	CAGTCATAAT	TGAAGGTAAC	TGATACTTCC	AAGGACTACT	TTTGACCTAG
77851	GATTACTATC	TTTTTAAAAA	TTTAGTATTA	AAGAAGTCAA	ACACAATTTA
77901	TTAATTCTGG	АТАТААТААА	AATTCTGAAA	TACTTTAATA	CTTTGTGCTT
77951	TTCTATTTGT	GAAAGTTAAT	TATTAGGAAC	GAGCTAGCAA	ATGCTACTTC
78001	TTTTTCAAAA	AGCTAATGGC	CAATCACAGC	AAAAATTTAA	AGCACTAAGA

78051	AATACCTAC	A CATATTCTT	C TATTGCCCA	TTATATGAC	T TCCATAATAG
78101	TTGATTAAA	G GATACCGGA	T TCCTTTATTC	TTGAATTAA	A ACCTCCTACA
78151	TGAAAACCT	T GATTTAGGT	T TAGAAGTTGO	TAATGTTTT	GCATGCAAAA
78201	CCAGTTAAT	G TTCTCATCA	TACTTTTAA	AACAATGTT	AGAGATGAAT
78251	TCTAGGGAT	T ATAAAAAA	A AAAAGCTGTA	TGTGTTTCT	TAAAAAT
78301	TTTTCAGCA	T GATTGCCTC	A GTAGAAAA1	TAAGGGACT	ATTGATATAT
78351	ATGTATATG.	A AGGTGAGGA	r ACACATATAC	ACACACACA	ATATATGTAG
78401	GTAAATACA'	r atattacato	TCTATCAATC	CATACATACI	CATTTATTAT
78451	ACGTTTTGA	A AGCAACCAG	TATAGTTTTG	TTGCCATGGA	TCATTTTTAC
78501	TATTCAGTA	A ATCAGTCAAT	TGAAGAGGCT	TGATTTTATG	GTATTAGTTT
78551	TTTGGAAAC	T GTCAGCTTTA	TAGTAAATTT	TGACATCTTA	CAACTTCCAC
78601	TGAGATTTT	r TTGCTTGACT	AATCTGCCTT	GATGCCAATA	AGTATATTAA
78651	CGGAAATGG	A CTAAAAGCAA	ATGTGACTTG	AAGCACAATT	TTGTAAATTT
78701	TCTTAGTGTC	TCAGTAATAC	TTAATACTAG	TGCATTTTAG	GTAGGAAAAT
78751	TTTCAGTTTC	TTTTATTTA	AATAACTATA	AATCTTATAG	TTGCTTGTAT
78801	AAAAGAAACA	GATACCTTTA	ACATGATTAA	ATATCAAATG	CTATTCTCTT
78851	CAAAATATCT	TAACTAAAGA	AGCACTGCCT	GCTCTTAGAA	GTTAAGCAAG
78901	GCCATACCAT	ATGCTGCGTA	CATGGCTTTT	AACACAATGG	ATATTAGAAA
78951	CAGCCTAAGG	CTGAGCCTGG	CTCCACTATT	TTTCAGCTAT	GTGACCATGT
79001	GAAAGTTACA	TTTAGTAATT	AAACTCATTT	CAGTAGTTTG	CTTTAAGAAT
79051	AAAATTAGGT	ACTCCGGGGG	CATATCAAGC	ATATTGTAAA	ACCTAGTTTG
79101	ATTATTATTT	GTTATTGGTA	TTACTATTAC	TATTCTATAA	TAAGTCATGG
79151	GCAGGCAGTA	GGGGTACATT	GGAAGAATTG	CACTGTCTTA	AATATGTCCT
79201	CTGTTTAACT	CACAAACTCA	GTCTACCTAG	GCTTTCTTTG	GAGGATCTGC
79251	CTTTCATTGG	CTGTTTGACT	TTGGCCAAGT	TACTTAACTT	CTTTTCACTT
79301			TTATGTGCTT		
79351 -			TTCTATGAAA		
79401			GCACAAATAT		
79451			TCTTTTAAAT		
79501			CCAGGTATTC		
79551			TGAGAACTCA		
79601			AAATCTTAAT		
_			TATTAAACTT		
79701			TGTTGACCTT		
79751			TGTTCAGATC		
79801	GTGATACTCT	CCCTCTATTG	CTAGATCTTC	GCATCAGAAG	ACAGCATTCC

11 -- 1. 12 13, 17 24 18 14:

79851	TCTGAAAGTC	TTTCTAGTA	CAACAGTGCC	ACAAGCCATT	CCAGTATTGG
79901	CAGTGGTAAT	GATGCCGACT	CCAAGAAGAA	GAAAAAGAA	A AACTGGGTAA
79951	GTTACCATCO	TTCATCTAAT	TCAGAAGCTT	ATTAATGCAT	P AATGTGTTAG
80001	GCCTTTTTCT	TTGGGGCTTT	AGTGATCTGC	AGTAGTTTAC	AAAGGGTCCC
80051	ATTCAAGCTA	CTGAGACCTC	AAATGCTGCA	CTCATCACCA	AAATTGGAGT
80101	GGCATGTACT	GAAAAGCATA	CATTTTAATG	TTGGGACTAA	ACTTGGGTTT
80151	GAATCACCAC	TATATCTAGA	CCTTTTGAGG	GGCCTGAATT	TTCTAACCAA
80201	TAAAAAGACA	GTTAATAGCA	ACTATATTTA	TTTGTGAATA	TCATTTATTC
80251	ACAGATGTTA	TCTAATTTTT	CTATAGTATA	ACTATACAAA	CTATGTAGTA
80301	TAACTATAGA	GTTATACTAA	AGAAAAATAA	GATAACATCT	GTGAATAAAT
80351	GGCTTAAAAT	AGGGGTTTAT	TGTGGGCATA	GAGATGAAGG	AAAAGTGAAA
80401	AAATGATGAT	GATGGTGATG	ATGATGGTGA	TAGTGGTCTT	GGAGGAAAAG
80451	GAGAATGGGA	GTTAATAAAG	GGAAAGAATA	AACAATGAAA	CTCTCATTCC
80501	ACCTTTGGAA	TCGACAGGGC	TTACCGTGTG	AATAGTTTCA	CCCTAAAAGA
80551	AATCAACCAC	ATTAGTGTCT	GCTTGATGTT	TTTAACCAAG	AGAATATAGC
80601	AGAAATATAG	AAATGCACTT	TAACAGAACT	GTACCTTAAG	TTTGCTAGTG
80651	ATATAATTTA	TGATATTGAT	CAATAGCTAA	ATAGCCCAGG	GGAAGATACT
80701	GTTACTGCGA	AAAATTTAAA	AACAATGGAG	TCAATGATTT	CTTTTAATAC
80751	САААААААА	ATGTAGATTT	TGAGTAAATA	CAACTCTTGA	TGAAATCCAG
80801	ACATAATTAT	CAGAGGATTT	TACTGGAGTG	CTTTCTACAA	ATAATGAAAG
80851	AAATATCTTT	TTATCTTAAA	AAATGTTTAT	ACAGGTAATA	TTTTAAAATA
80901	CTGATCAGCC	TTCATTCCCT	TGATTTGTAA	TTCCACACTC	TTTCATGTTT
80951	CTGCAAGGTG	AACTCTAGAG	GAAGTGAGGT	GAAXATAAAC	CGTGGACAAT
81001	TTGGCATGGA	TXTATAAAAA	AACCCTACCT	TGGCATGAAT	GCTATCCATT
81051	TTGGCAGTAG	GCTTTTATAC	CTTTTAAAAC	AGATTACCTT	GTATGTCTTT
81101	TCTTTGTGTC	TTTTCATTTT	AATCTCAAAT	TTTAAAGAGA	TGTAAAACCA
81151	CTŢTCTGAAT	AGAGCTGTAG	GGGATACCAA	TTCTGGTTTT	GAGTAGTCTG
81201	GGGTTGGAAA	ATTTGAATAG	AAAAATCACA	ATTAATGAAG	TGTTAGGTGA
81251	ATTTGATTTC	ATTTTGCTTT	TTAAGTTTGT	ACTGTCAGCA	GGACATGACT
81301	TGATTGTAGC	GCTAAAGTGG	CCATTTAAAA	CAAATTGCCT	TGAAGAGAGA
81351	AGCATTGGGA	ATGGAGATC			

Fig. 2 (cont'd 45)

Human genomic sequence

1	GAATTCCTGG	TGGAGAACAG	CACATGTACA	GATGGGGTGA	GAACAGCATA
51	CGTACAGGTA	GGGGTAAGCT	GGTGCTATAT	GAGAAAGCAT	GGAATAAGTT
101	ATTAAGTTTG	ACCTGCTTGG	GAACTGAGGG	GCAGGTGTGA	GGGATGAAGC
151	AGGAGTAGGT	AGGGGCTAGA	TCACAAAAGA	TCTATGCCAG	TGTTTCTCAC
2:01	AGTGTGATTC	CCAGCCCAGT	AGCATGATAT	CACTTGGGAT	CTTGTTAGAA
251	ATACAAATTC	TTATACATCA	CCCTGGACTA	GACCACCTGA	ATAAGAAAAG
301	TTGGGCATGA	GGCCTACAAA	TTTTTAAAAA	AGTCATACAG	GTGATTGCAA
351	TGCATGCTAA	AGTTTGAGAA	ACACTCTTTG	CTGTGGTTTG	AATATTTGTG
401	TCCTTCCAAA	ATTCATGTAG	AAACCATCTC	CAATGTTATA	GTATTAAGAG
451	GAGGGACCCT	TGGGAGCTGA	TCAGATCATG	AAGTCTCCTT	TCTTATAAAG
501	GGGATTAAAA	GCCTTGGCCC	TTTTACCCTT	TGTCCATGTA	AGGACACAGT
551	GTTGGAAGCA	GGGACTGGGT	TCTCACCAGA	AACAGAACCT	GCCAGCCTCT
601	TGGTCTTGGA	CTTCTCAGCC	TCCACAATTG	TGAGAAATAA	GTTTCTGTTG
651	TTTATAAGTT	AACCAGTCTC	AGGTATTTTG	TAATGGCAGC	ACAAAGGGGC
701	TAAGAAACTG	TTCTATGCCC	TAACAAGAAA	TGTGGTCACT	TTCCTGAAGG
751	AAATGGGGAT	ATATATAAAG	ATGTTATATA	AGACTCGTAA	TATTTATTTG
801	GAAGGCTTGC	TCTGCAAGCA	AGGTGGAAGA	GCAACATGAA	GGAAGCGTGG
851	TGGAGGTGAG	AGGACTGGAG	GTTAAGTTGG	TAGGGAGATA	CAGGAAAGAA
901	GCTTATGACA	CTTGAGTTAA	AATGTAGCAT	CCTTCCTATG	TGTAGGGCTC
951	ATAAAAATGT	ATAGTCTAAG	ATAGAACACA	GAATACTCTA	TGAATCCTGC
1001	CCACAAGGTG	TTGGTAATCT	AGATTCACTT	TTTTTTTCTG	ATAATGCCAT
1051	CCATATGTAT	GGAGCGTCTA	CTACTGTATG	CCAGAGTGAC	TCTGGAATCG
1101	GTTTGGTTGA	TCTAGACAAG	ACCATAAGGA	GAGTCCCCTT	ACTACCTCTT
1151	CTCCAGGGGA	GGGATTCAAG	TTGAACTAGT	ACTTCAGAGA	CTGTTTAGTA
1201	ATATCATGCA	TGAAAGGTGA	TGGTTAGGAC	AGAAAAATAA	ATGGATTGCA
1251 ຶ	TCATAATTCC	TCAGGTTCTC	CAAATATGTG	GTGGTCTCAA	ACCATGTGAA
1301	TTGGTCTGCA	CATCCTGTTT	GGGTTGCGTG	TCAGCAGTTG	AGATCTGAGC
1351	CTTATTTGTA	ACAGTGAAAC	AGTGAGAGAC	CTGCCCTTCA	AGAGCTGTTT
1401	TTCAGCTAGG	AATAGAAAAG	GGCCAGGCTA	GACTCCTCTT	TCTGCTGGAT
1451	CTTGCTTCTT	CTCAGCAATA	GAAGTAGACC	TGCCTTCCTA	GCTGTAGAGA
1501	AAAGGTGCCG	GTAGGCGGGC	AGGTGAGCCT	GTGGATAATC	CTGGAGTAAA
1551	GGTTCAATAG	ACCTTCAAGT	CTATCCTACA	GGATTCGGAG	TGAGGGGAGA
1601	GAAAAGGAGA	CGCTTCTCTG	GCTGAGAGAG	GAAGAGAAAA	AAAAATCCCA
1651	GATATCTGAC	AGCTATATCT	TCCCATCACC	ACCTTCCTCT	AAACCCATGC
1701	CTCTCTGTTT	AGTAGGACAT	AAAATGAAGA	GTGACCCACC	CCCCACCCC

1751	AGCCCATCCC	CCGTTTGTAG	GTGTGCTTTC	AATGAAAATA	AGTCGGTGTT
1801	CATGGACGGA	AACTAGAGCA	GCTGAAAATA	GATGCAAGAC	TTGTTGAGCA
1851	TACAAATCAT	TTCCCCCTTA	GTCTCCAAGG	GAGGAAAAA	AATCCCTCTT
1901	ACTCTCCTTG	CAGCCTGTGT	TCTGCATTCT	GGAGAGGAAG	CTGAGGCTGG
1951	TCCTCAGGCG	CTCCTCCCGC	CGTTCCCGCA	GGAAACTTTT	CTCGCAGGGC
2001	CCGCTCCGTC	CATCCCGCGC	GGTTCCAAGA	CGGTGGGCCT	CCCGTGGGCT
2051	CCTCTCCTGG	GCAAGGGCCC	AGACCCCGCG	ACGCGCCTGT	CTCTTTAAAT
2101	TCCAGCTGCG	CGGCTGGGAA	ACAGCGCCAC	TCGCCGCCCA	GGCCGGCTGG
2151	AGGCTGAAGA	GCGAGCTCGC	GCTTTCGCTC	CCGGCTGCGC	GCCGCGGAGA
2201	GCTGGGCTCG	GCCCGCGGGC	TGCTAGGTGG	CGGCGCGCG	GGGCGGGGAG
2251.	GCGCGGCCCG	GCGGAGGAGG	GAAGAAAGAG	CGAGCCGGGC	CGGGAGAGGC
2301	GCCGCGCCCG	GTCCCGCGCC	CGGTCCCGCA	CCCGCTCTCA	GCGGCCCAAG
2351	CAGTTTCTTT	CTGGGTGACA	AGAATGTGCC	TCGGTTGGTT	TTTCTTTTTT
2401	TTCTCCATCT	CCTTAAGACG	ATTTCCATAG	TAACCTGATC	AAGTGGCTCA
2451	AAATCGCÀAA	CCTGAGGATT	TCCGCGGCCC	GCCGGCAAGA	CCTCGGCCAG
2501	GTAACGCTGC	GATCTCCTCC	TCTTCCATTG	CAAACCGCTG	CGCTCCTTGC
2551	AAAGTTCCTT	TTGTGGAAAA	TCGCCCAGCC	CAAGGGAGCC	CGGGGTATTT
2601	GCAACAGCGT	GTTCATTTCC	AGGTGCCTGT	CACGGGTCTC	CTCCCTGCTG
2651	CTTCTCCAGG	ACCCATGATG	AGATTATTTT	TAAAAATTGT	TTTTGGTCGT
2701	CTCCCCCGCC	CCCTCCCCTT	CTTTATTTTT	TTCCTCTTCG	CTGCACTCTT
2751	CTCGGCTTTT	CCCCTGACAC	TACTGATGGG	GGTGCGGGG	GACGTCGGGG
2801	ATGGGGGTGG	CCAGCGCGGT	CCTGGGAGTG	GCGGGTTCGG	ATGGGCTGGC
2851	TGCGGTGGGC	CACTTTGGGC	ATCTCGGCGT	GGCCTGCGCC	GGGGTCACGG
2901	GGAGGGCTGT	CAGCGCCAGG	GCGGCGGAAC	CCGAGGTCTC	CAGACGAGTG
2951	AGGGAGGGAT	GCAGGCTTGG	GGGTGATGGA	GCGCTTGGCT	GGTGGCTGGT
3001	GAGCGTCCAT	ACATCATAGC	TCTCCTTCCC	ACTCCCCCGC	CCCTCTTCGG
3051	GATTCTCTCT	TTCTCTTTCC	CCGTCCTCAT	TTCTTTCTTC	CTTTACTCAC
3101	CACTCGCTTC	ATTCTCTTCC	TTCCATTTCC	TCTTTTTTC	TCCCCTCATT
3151	TCCTTTTTTT	CCTTTCCCTT	TTAAAGAAAG	GGGAATCGTT	TGTAACCCTT
3201	TCGTTCTACC	AACGTGGAAT	AGCTGTGAAA	CCTGCAGCGT	GGTCACCTCA
3251	GCCTGGTCGT	TTTCAGACCC	GTCCTCATCC	ATCAACATAT	TTGTTTCCCG
3301	AGTCTATTGA	TCTCCCTGAA	TTCTACAGAA	ATGCATTCTA	AGCTAGGCGC
3351	CTGTATGTCA	GAATCAGTTC	TGCAGGTAGC	TTCCGTGCTC	CAAGTATGAC
3401	ATGTATTGTA	AGGGCTGCAT	CTGTTTTAAA	CCCACATAAG	CCATGGGTAT
3451	AAATAAATGT	AGCTTTGAAA	AAAAATCTGG	CCTTATTCTA	GATAAACTTC

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3501	CCTCTTAAAT	TACTGATATA	CTCTTCTCCC	TCTTTGACAT	$\mathtt{TTAATTTTAG}$
3551	GAAAGTTGGG	AGACAGGTTC	TTGTCCTCCA	GTTTTTAAGG	AGCAGGCAAC
3601	TTCTATTATC	TTAATTTTCT	CGTCTTTGAA	CATCACTCAC	GTTTGCACTA
3651	CCCAGTCAGT	GGAACGAGTG	GGTCATAATT	AA	

Fig. 3 (cont'd 2)

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· Human genomic sequence

1	CCTGCATTAT TO	GTTTTTATC	TGACTTCCAA	TTTTGGTGTT	CCCTGGGTGG
51	GTGGGTTTTC CT	rgacacatt	TACAAGATGC	TTTTGGCAGG	TTGGCTGGAA
101	TTTGAAGGCA CA	\TTTAATTG	TAGGTGCAAT	AAAATATTCA	TTTTCTCTTG
151	TTCTTGGTTT GA	AGATGTCAT	GCCCTTTTGG	TCACTTATAT	TTTGGTGTGA
201	CTGTGTGTGT GT	GTGTATGT	GTTTGTGTGA	AGGATTTAAC	AAAGTCTGTT
251	CTAACTGTCA TO	TGATTTGA	AGTTAAAAGG	TATGTTAGTG	ACAAGCCACA
301	AATTTCTCTT AT	TTATAGTA	CATTGATCCT	GAAACCATTT	TTTCCCTTGT-
351	GATTTCTTCT GT	GCATGGAT	CATTTAACGA	AAGGTTGGCA	ATGATGAGCT
401	ATTTTTTTAT AA	TAGGAAAA	AAATTCCTCA	AGTTTACTTA	CCAAGTCATA
451	TTTTTATACA GA	GGGATTAG	CAAATATTTC	TGATCTAATA	TTTTAATAGA
501	CTGAATTGCT GA	CCACTGCT	AATTACCAAG	AATATATTT	CTTAATTCTG
551	AAATTGCTGT AC	CTCTCAAG	TTGTCTGGAG	GACTCCAAGT	GACCCAACTT
601	GTAACTCATG GC	AACAGGAA	GTGGTTGTTC	TGGGTGCAAG	CTGAAGTGTG
651	CACATGGACC CG	TACTTTGT	TAGCACTCGG	GGACTTGATA	TGGAAAGAAT
701	TAATGTACTG GC	TTTTTTGT	ATAGATGAAT	GTTAACTTTC	TGACATTAGT
751	CAGAACTACA TC	TCCCAAGC	CTTGTTTTGC	AGTGTCTGTC	CCTTTGCTCT
801	TCACTTACAG TA	AGTCCTTA	CTTAACTGAC	TTGATAGGTT	CTTGGAAACT
851	GCAACTTTAA GC				
901	TTGGTAGAAA CA	AGACTTAA	GTTCCCATGG	CATATTTCTG	GTCACAAAAA
951	CATTTCCAAA CT				Α,
1001	AAACTATGTA TA				
1051	CCCAATTATT TA				
1101	CTCAGGGCAC AAG				
1151	AGGGCACGTT CAG				
1201	CAATTCACCT ACC				
1251	CTGGAGAAAA TCC				
1301					
1351	AGTTGAATGA AAT				
1401	ATAAAATTCT CAC				
1451	AACTTATAGA GAA				
	AGGATGAGAA TCA				
1551	TTCAGGGAGC TGT				
1601	CTACTTCTTA CTG				
1651	TGTCACCTAG CTT				
1701	GTTATGAATT CTT	AAACACA (	CAGGACATAA	CCACAGACAC	AGAGGTGCAC

1751	ATATGTAGC	A GTAATGGAT	A CTAAATGATA	CACTCGGAG	G AAACAGAAAA
1801	GACTTCTGA	A TAGAGACTG	G AGATACTTCC	TTGGACCAT	r gatgaatggg
1851	CAATGATGC	A TTTTTGTCT	r ccattcagaa	GGCTAATAT	A TTGCTCTCTA
1901	TGTTCTATG	G ATAAAGGCA	G TATATGCTCA	AGGATGAAT	CACATAATATG
1951	САТААТААА	r ccagcaagca	A TTACCCTTTI	ACTTATGTG	CTGCAAGTAG
2001	GAATACATT	CCCCACTC	T AACCATGTAA	GATTTCTTTC	CCTTCTCCCA
2051	TTTTGTAAG	AAAAGTAAGT	TCCTGAAAGG	TTAAATGGAC	CTCAGGATGG
2101	GAAAAATCC	CAGAGCTATO	TTTCTGCACA	GACTTCATT	TTTCTCCCAA
2151	GTCTGACTG	CAACTGCGAT	ATCTGATATG	AGGCTCTGGT	GCTGATGTTT
2201	CCATAGGTCA	TCATCCTTCC	GTGTCCCAGA	TGAAĞTCTCA	GGTCGAACAT
2251	TGCAATAGCA	CAGATTCTGA	ATTTAATGCA	TCATTAAAGT	TGGTTATGTA
2301	ACCCAATGGC	CTTGTTAAAC	TCCAGATTTT	ТААААТТАТА	TGTATTTACT
2351	ATTCTCTTAT	TTTAGAATGA	TCTCACAATG	TTCACAAGAA	ATAAGCCCAG
2401	TCCCTGCAAA	GACTTTAAAA	GCTGCTTGTT	CACATCATTA	GATTGTACAA
2451	CGCTTGTACA	. ATGACACTTT	TTGCTAATCT	ATGCAACATT	TTTGTAACAA
2501	TTGTGCACAT	TTTAACTACT	TCAGATAATC	AGGACCTAGA	GACTTCAAGA
2551	TCTGGAAGCA	TTGCTGGTGA	CATAGAGCAA	AAACTTTCTT	GAGAATAGGA
2601	AGTCAGTGTT	TTGACAAGTG	ATTTATAACA	GTTCAGGTAT	AGCCAGGAAG
2651	GTTTGAAACA	AACCTTAAGT	ATTATTTCTT	TCATCTTGAT	TAGTATATAT
2701	TTATATGTGA	TCTATTTATG	TATATTAATA	GATTTTTGGG	TCTTATAGCC
2751	AGCTTTCATT	TTTCTCTATT	GGAAAAGATC	TAAGTCCCCA	TCCTTCCTTG
2801	GTGGCTTTTG	GTAGGTTTGT	AGACAAAACA	TTGAAGAATC	AATGGTACCT
2851	TTTATACATT	AATACTGCCA	ATATGACCAT	AAAATCATAT	TTTTTGGGAA
2901	TTTATTCCCC	CGATCAAAAG	AAGCATTTGT	TATTGAACAC	AGTCTTATGC
2951	TACCTTATTA	AGATGTATCA	AACACCCTGA	TTGATCAAAA	ACACCTCAGT
3001	CCATTTTAAG	GCAGTATTGC	CCAGCAATTA	AAGATGTAGC	TTCTGGAGGA
3051	GTCTTTCTGA	GTTTGAATTC	AGTACTCTTC	CACGTACTAT	ATAGGTGATC
3101	TTGGGTAAAC	TTCTTGAGTC	TCAGTATCCC	CATCTGTAAA	ATTGTTGTAG
3151	AGAAGAATTT	TTGTGATGAT	TAGGTGAGAG	AATATATTAA	TGTAATATTT
3201	AGGAGAGCAA	CCAGCATGTA	GCATATATTC	ATTACATATC	AATTTCTATA
3251	TTATTGATGT	TCATACTGCT	GATGTTGAAA	TGCACAGGAA	GGCCACAGTT
3301	ATTTTCTGTT	TAGATTGATT	TTTCTTTTAA	AGTCTGAACA	TAAACTGTAA
3351	TACTGTGCTT	ATTTATGTAG	GAACTGTGAT	CTCGTCTCCT	CCTTTTCCCA
3401	TCTCCCCCTC	TCTACCTTAG	TTTTTCCTTA	TAGTCTCAAG	CTGAAAACAA
3451	TGACCAGGTG	CCTAAGAGAT	AAGAATACTC	TTTCTTTTGA	ACTCATGGCA

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3501	TTAGCAGTGA	CCTGGATGAG	ATTGGAGGCT	ATTATTCTAA	GTGAAATAGC
3551	TCAGGAATGG	AAAACCAAGC	ATTGTATGTT	CTTACTTATA	AGTGGGAGCT
3601	AAGCTATGAG	GATACAAAGG	CATAAGAATG	ACACAACAGA	CTTTGGAGAC
3651	TTGGGGAAAG	GGTGGGAAGG	GGGTGAGGGA	TAAAAGACTA	CAAATAGGGT
3701	GCAGTGTATA	CTGCTTGGGT	GGTGGGTGCA	CCAAAATCTC	ACAAATCACC
3751	ACCAAAGAAC	TTACTCATGT	AACCAAACAC	CACCTGTTCC	CCAGTAACCT
3801	ATGGATATAA	AAAATTAAA	AAAAAGAAAA	AAAGAAAACT	CTTTTTTGCA
3851	GGGGGCAGGT	AAAGGGTAAG	AGGGCATCCC	ATTTTTGAGT	TTCTAGAAAA.
3901	GCTT				

Fig. 4 (cont'd 2)

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#### Human genomic sequence

1	CTGCAGGAAG	CAGCAGCAAG	GTCCAGGGAG	CCTCTAATTT	AAATAGGAGA
51	AGTCAGAGCT	TTAACAGCAT	TGACAAAAAC	AAGCCTCCAA	ATTATGCAAA
101	TGGAAACGAA	AAAGGTAAGT	GTTTGTTACA	TCATTATGAC	ACAAGTCCAA
151	CATGAGTCTT	GTGAATTGCA	TGCTAAATCT	AATATTTGAG	CAGCGTAACA
201	ACTTTGGGCC	TAGAGATGTT	ATCAGTGGAG	TTTCTTTATG	TTTCCTAACT
251	GTCCCCTCCT	GACTGCCAGC	TTTÇTTATCT	GAAGAACATT	ТТАААСАААТ
301	AAACTCATTC	ATTTTAAAGT	AGTTAGTTAT	ATATGCAAGT	ACAAATACTG
351	TTTCTCAAAA	ACAGGTCCTT	CCAAATGCAT	GTAAATCACA	TTTTCTTATG
401	TCTTTTTATG	TTTTTGAAAA	TGTATCCTGA	AATCATAAAG	CCATATTGAA
451	TTTATCTGAA	TCCTTAACTT	CAGTTAAGGT	AAGAGCCATA	AGTGTTTTTG
501	ACAATTAAGG	TTGGAGCATC	AAAATTTGAA	ACATAATTAC	AGTAGGTTTT
551	TATCTTTGCA	AGCAGCAGAT	CCCAGAGATA	TTATGACCTC	AGTTTTCCCC
601	AAAAGACAAA	TTATTCATAT	TTGTTTTGTT	TTCTTGAATT	AGTGCATAAT
651	ATAAATATCA	AATCACAAAA	TCAAGGACAT	TAAATGAAAG	TGTCTGTTAA
701	AGGCATATTA	TAAATGAATC	ATAAGCCACA	CAGTTCTCTG	TGATGTACGA
751	AGTGGGCATT	TAAAGAGGTG	CTGATTTGAT	GCTTGTCACT	GAGTAGCAGA
801	GAGGACGGGG	ATGAGTATGT	GTAGTTTACA	CCTCAATCAT	GAGGAAGTGA
851	AGAACTTGTG	CTGTTATAAG	TAGTATGGCT	GTGTGAGGAA	CTAGGGTGTT
901	CTGCTGGATT	TTGAGGAAGT	ATTTTCAAAT	CAATAGAACT	TCAAACTTTT
951	CTTCAGAGTG	TTGGGCTCTA	CATGGAAAAA	CACATGAAAT	TAAAAAGTGG
1001	CACAAATGTT	TAGTTAGTAG	AACATCTGGC	TAATTGGGAT	САААТААТТС
1051	AACCATGTGG	GAACGTTTTT	GCTCAAAATA	GATAATTGTG	AATTGTTTCA
1101	TATAGGCAAA	TGATTAGACA	ACTTCCTCTT	CCTCAAATGT	GAACGGACAG
1151	ATGTGATCTA	GAAGCAAGAC	ACTCTTTTGT	GTAAATATTC	CCTTTGGCCT
1201	AAAGCAAAAG	TGGACAGACT	TTAAACACCT	GAGAGCAGAG	CAGTGTGTGT
1251 -	TAAGATTGCA	ATATCTTAAG	CTCTTGAGTT	AAATGGAAAA	TGAAAAACAA
1301	AAGTGTATAT	TTGGAAGTTA	GGAATGTTTT	CTTTAAAATA	AAAATAAAAT
1351	TTTTAGATTT	AAGATCACAA	GAAATATTAC	TGAAGACTTA	TACTCTTCCT
1401	GGGGCTAAGG	GAGGTGACAG	TCGCTCATCA	GAAAAAAAA	AATGCCCTCA
1451	TTTCCTAACT	ТТТСТААААА	ATATAATACA	AGTTCAGGCT	AATACTTCCT
1501	GTATATGTGG	GAAATTTCTA	GGGGAAGCTA	ACAGGCTTAG	AAATAAAGAT
1551	GTGTTAAATA	GACTACCAAA	GTGTCCAATT	AAGCAACACG	ATACCACCGT
1601	TATTGATATT	CTAGCAAGAA	ATTACTAGCA	ATGTTTGTAA	ATAGACTTAG
1651	AAATGCATTT	GATGAATTAA	CACTTTTATA	TCTTAATTTA	TCTGAATTTT
1701	TCTGTAATGT	GAAAATGTTT	TATTTAACTT	ATTTCTGGCA	TCTATTAGTA

1751	AAATTCTGAT	GATATACAAG	CATTAATATT	TTTCCATGGC	CACTCAATTC
1801	ATACATACCT	TCCCTATCTA	TGCTTAGAAG	GCAGTGCAAA	ATTAGATAGT
1851	AGCAATATTG	ATTATAACCA	CAAGGTGGAG	ACAGATGTCA	TGTAATATGC
1901	AGTCTGCTCA	TATAAAGCAC	ATTTTCTTAG	ACAAGAGTTT	TCATACGATA
1951	TAATAAAGAC	ATCTGGAATT	TGTCTTGTAT	GCAATATGAA	ATTTGCTATT
2001	AAACGTGGAG	TTAAAACTTT	ATGTCAATAG	ATCCAATAAC	AATGTTCATA
2051	AATTAATCAT	TATGTCATGC	TGTATTTCCA	AAATACTATC	TTAAATTATA
2101	AGAGCAAACG	AGGTAATAA			

Fig. 5 (cont'd)

#### Human genomic sequence

1	GTACATTTTT	TAATAAAGAT	GTTTGTTTTA	ACTTTTTGAA	TATGAAGATT
51	TCTAGTTCTA	GAATAATGTT	ТАТАААААТА	TACAAATCCA	TCTGGTGATG
101	AGTTGACCTC	TATCACAACT	AGTTTGCATA	TATAACTTGG	GTGTGACCAA
151	GCAAGGTGAG	AGTTAAGAAC	TTTTAAAACT	TACTGTATTA	TATTGATAGA
201	ACTCAGAAAG	TACTAACTTG	AATATTATTA	TTCTAATTGC	TTTTCCCTTT
251	TAGTTATTAA	AAATAAGAAT	ACTTAAATTA	ATAACAAGAT	CTTTTACTGG
301	CAGGATTAAC	CAAATTATCT	GTAATGTGTT	CCTCGAATGC	TTTTAAGTGG
351	AAATATACTT	TATACATTCT	TTAACAACTC	TGAGAGGATG	AGTTACATAA
401	ATCAGTTCAG	GAATCTATAG	AATCTGTAAT	ACATAGTAAA	GGTTTATTCA
451	CAATTAAAAC	AATTTCACTT	СТАТАТТААА	AAAACAAATT	GTTGAAAGTA
501	CAGTGGCTTT	TCATATGTAT	GATTTGTAAA	ACAAATTAGC	TTTTTTAAAG
551	TGATGTGACG	CTTAATGAGA	AGAAATCAGT	AGAGAATTAC	AAACTGCACT
601	TCAAAAGATA	CATCTAATAT	CATTTTAATA	ATGAAATTTG	AAAAAATAGT
651	GTGCTCGTTT	TACAGTCTCA	TTAAATGAAT	TAAAATATCA	GCACACATTG
701	TAGTAGGTTA	TCATTGGCAG	AGAAGGCTGA	AATAGAAACG	TTACAATGGG
751	ATGCACTGCC	ATCTGAACAT	TATGTCGAAG	TGGAACGCGG	AAACATATTT
801	CTCAGAACAA	GTGGTAAAAT	GAAAACAGCA	TCATTTGTAA	AGCATTTCTT
851	TTGAGAGTGC	TTCAGTTTCT	TCTCCTGATG	ACCTGCCATT	CAGAAACTGA
901	CAATGAATAA	TACACTCTGA	CACCAGCATT	TGTCAATTTG	CCCAGAACCA
951	TATGAGAGTA	CTCTAGACAG	ATATATGTTC	CGAAGTAAAC	CGAATACCTG
1001	TTAACTGTAA	ATCAAATCTT	GTAGAAACCA	TGCCATGGTT	CCTTTGGACA
1051	TATACTTTGC	ATGCCTGAAG	CAAGTTACCT	TAAGAAATCA	TTCTTTTGTT
1101	TTACAAAACT	TGTATTAAAA	TAAAAATTAA	GCAAAAAAGC	TTAATATTAT
1151	TAGGAATTTA	TCCATAGCTT	TATTTGGAAT	CCAGTTTCTT	TATTATGATC
1201	TATAAACATG	CATCATTTGA	TGGAGTTCCT	TAGTGGAGAG	GTGTTTTTCC
1251	ATGTTGCTAA	GAAACATGCC	CCAGCACCAG	AAGGGATACT	ACCTACCATC
1301	TTTTTGCCAT	TTCTCACCGT	GATTCTTACA	TTGTACCTGT	TTACTCACTG
1351	AACAGGGCTT	CCTTCTCTTT	GTCTAGATTC	TAATCAGGTG	TCTTCTGGTG
1401	TGGAAGCTTT	GGCTTTTATT	TACACACAAC	ACAGAATTAA	TAAGATAGAT
1451	GCCAAGGATT	TAGCAACATT	TTAATTCAAC	ATTATACAGG	TATCAGAGTT
1501	AATGAGAATT	ATGCATTAGT	CTTTAAATTT	GGGCAGCTTA	TTCAGCTAAA
1551	ACATAGATGT	CTAGCTCTTA	AACACTTTGT	TTTTTTAATT	ACTCTGAAAT
1601	TACAATAAAG	TCAAAGAACT	GAACTGTTTT	CTTTTCAAGC	CAGTGCAAAT
1651	GTGCTTTAGT	ТАТТАТТТТА	CTGGTGATCT	AATTATGCAT	TTTAATGCTT

1701	TATTACTTAA	TACTTATATA	AGCCTAAAAT	ACGTTGTTAA	TGTCATAATT
1751	TCAGGGATTT	TAGTATTCTT	TCCATGAGTT	ACCATAACTA	GGTGCATATG
1801	TGTAAATATA	CGTATATATC	TATATCTATA	TATTTATATC	TATGTATATA
1851	TCAATTTATA	AGACTAAATA	GACTTGGCCA	TATGTGTTGT	TGGTTTATGC
1901	ATACATGCAC	AAATATTGAG	GTGTCCACAA	AGTATATATG	CCTGTACATA
1951	AATTACATAC	TGGCTGGTGA	GTGAATGTAA	GCTTCTCTAA	ATTGTACAAC
2001	TCTCCACAGA	GTGGCACTCT	AATATTGCAA	AGGTACAATA	TAAGCATGTG
2051	CAGAATGAAC	AGCTCTTCTA	GGATCCCTAT	AAAACTCCAC	CCCATGTTTC
2101	TGT				

Fig. 6 (cont'd)

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### Human genomic sequence

1	AAGCTTCATC	CCAGAGGGGC	ACTTGCCAGA	TGCCTGCTAG	AGCTCTCCTG
51	TATGAGGAGT	CTATCAACAC	CTGCTGGGAG	GTGTCTCCTC	GTCAGGAGGC
101	ACGGGGGTCA	GGGACCCACT	TGAGGAGGCT	GTCTGTCCCT	TAGCGGAGCT
151	AGAACACTGT	GCTCGGAGAT	CCGCTGCTCT	CTTCAGAGCT	GGCAGGCAAG
201	AGTGTTTTAG	TCTGCTGAGC	CTGCGCCCAC	AGCCGCCCCT	TCCCCCAGGT
251	GCTCTGTCCC	AGGGAGATGA	GAGTTTTATC	TGTAAGCCCC	TGACTGGGGC
301	TGCTACCTTT	CTTTCAGATA	TGCCCCGCCC	AGAGAGGAGG	AATCTAGAGA
351	GGCAGTCTGG	CTACAGCAGC	TTTGCCAAGC	TGCAGTGGGC	TCTGCCCAGT
401	CCAAAATTCC	CAGCGGGTTT	GTTTACATTG	TGAGGGGAAA	AGCACCTACT
451	CAAGCCTCAG	TTATGGCAGT	TGCCCCTCCC	CCCACCAAGC	TCCAGGGTCC
501	CAGGTGTCCT	TCAGACTGCT	GTGCTGGCAA	TGAGAATTTC	AAGCCAGTGG
551	ATCTTAGCTT	GCTGGGCTCC	ACAGGGGTGG	GATCCACTGA	GCTAGACCAC
601	TTAGCTCCCT	GGCTTCAGCC	CCCTTTCCAG	GTGAGTGGAT	GGTTCTGTCT
651	CACTGGCATT	CCAGGTGCTA	CTGGGGTATG	АААААААА	CTCCTGCAGC
701	TAGCTTGGTG	TCTGCCCAGT	TTTGTGCTTG	AAACTCAGGC	CCTTGGTGGT
751	GTGGACACCC	AATGGAATCT	CCTGGTGTGC	ATGTTGTGAA	GACTGTGGGA
801	AAAGCATAGT	ATCTGGGCTG	GATAGCTCCG	TCCTTCAAGG	CACAGTCCCT
851	CATGACTTCC	CTTGGCTAGG	GGAGGGAGTT	CCCCAACCCT	TTGCACTTCC
901	CAGGTGAGGC	AACACCCCAC	CCTGCTTCTG	CTCACCCTCT	GTGGGCTGCA
951	CCCACTGTCT	AATCAGTCAC	TGTGAGATGA	GCCTGGTACC	TCAGTTGGAA
1001	ATGCAGAAAT	CACCTGCCTT	CTGTGTTGAT	CTCACTGGGA	GCAGCAGACT
1051	GGAGCTGTTC	CTATTCAGCC	ATCTTTCTCA	GGTCATAATC	ATAGATTTTT
1101	AATTGATCCC	AGCAACATGG	ATTAGTAAAC	AGCATATTTC	CAAGTGATTT
1151	TTTTTTATTT	TAAGGTCAAA	TCTACAAAAT	ATTATAGTGT	TATCACCACT
1201	TAAAATTATT	ACTGGTGATA	CTATGTTTGT	CTCTATTCAC	ATTTTATTGC
1251	TAGAAAGAAT	TATAATTTGT	AGATAATAAT	AGTTATTTGA	AATGTATTAC
1301	ATATCCTTTT	ACTTTTAAGA	AGAGGTGACT	TAATTATCTA	GGTATACAAT
1351	TATTTTGAGG	ATACTAAATG	TCATGAATAG	CAAATTTATC	ATATTGCTTT
1401	CCTAGGTGAA	GACCCTGAAA	CAAGAAGAAT	GAGAACAGTT	AAAAACATAG
1451	CAGACTTGAG	GCAGAATTTA	GAAGAGACTA	TGTCCAGTCT	TCGTGGGACT
1501	CAGATAAGCC	ACAGGTTTTT	TTCAATTTTG	CATATATTTG	AGCCAATAAA
1551	GAAAAATAA	TTACAAACAA	ACATTTAACT	TTTCTTATAA	TGACAGAGAT
1601	GGGATTTCAG	TTTCCCCTTA	CTATTTTCTC	CCTTGTTTTA	TATCAAATTG
1651	ATTGGTAATT	ATCCTTAAAC	TGAGAATTCA	CAGTATATAC	CTATTTATCT
1701	TTTATCTCTA	TCTCTATCTG	CTATTTATGT	CTTTTTCAGT	ATAATTTCCA

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			,		
1751	GTACTGCAAC	TACCACCATC	ACTGTTAAGT	GGATTTGTAA	TACCTGTCCT
1801	AGAAAACAGT	GGCACAAGTT	GCACTTGAAA	TGCATCTGGG	CAGGGTAGTA
1851	GGGAGACATT	САААСАТААТ	TGTAGTTAAC	TTTCAGAATA	GGTCTGGGAA
1901	GGTTACAGTG	AGTTAAGGAT	TTGTTGAAAA	TGTAAAACAA	TATGTTGTTT
1951	TACCCAAGGT	GTACTGATGG	CCTTTCTTTT	GAAAACAAAC	GAAAAGCTAT
2001	AAAATGTATG	CCCCTTTCCA	CAATTTGACC	TCAAAATGAA	TATAGAGTTT
2051	AGCTTTCGGG	AAGATGACGT	GTTTATAAGA	GATGACCCTC	AACTCCAGCC
2101	TTTTCTGTCT	TCATGCATTC	TAGATTATGG	CCCTAAGTGA	ACCAGAGTAT
2151	AGTTATTTCT	CCATTTTATT	TGACAGCACC	CTGGAGACAA	CATTTGACAG
2201	CACTGTGACA	ACAGAAGTTA	ATGGAAGGAC	CATACCCAAC	TTGACAAGTC
2251	GACCCACCCC	CATGACCTGG	AGGTTGGGCC	AGGCATGTCC	GCGACTTCAG
2301	GCGGGAGATG	CTCCCTCCCT	GGGTGCTGGC	TATCCTCGCA	GTGGTACCAG
2351	TCGATTCATC	CACACAGACC	CCTCGAGGTT	CATGTATACC	ACGCCTCTCC
2401	GTCGAGCTGC	TGTCTCTAGG	CTGGGAAACA	TGTCACAGAT	TGACATGAGT
2451	GAGAAAGČAA	GCAGTGACCT	GGACATGTCT	TCTGAGGTCG	ATGTGGGTGG
2501	ATATATGAGT	GATGGTGATA	TCCTTGGGAA	AAGTCTCAGG	ACTGATGACA
2551	TCAACAGTGG	GTAAGTAACC	CTGTTCTCCG	TCAGCATTGT	GTGAAGAGGG
2601	GAGGTGGTCT	ACTATAATGC	ATTCACTATA	AACAAATGTG	TAAGTTTGCC
2651	CAGAAAGTCA	TGAGAACATA	TGAGATATCT	GAGGTTATTC	AGAGTGTTGA
2701	AGGGCCCTTC	CTCTGCTCAT	TCATGGAGAG	TAAAGAATCC	AAGATTTCTA
2751	TAAATTCATT	ATAAGCCGCT	AAGTTTTTCT	GTTGTTGAGA	GAAACACATG
2801	TGGCTTCTGT	TTTTCAGAGT	GATTTTCACA	TGCTTCTTAA	GTAACAGATT
2851	TTGTAGTTAA	GGACGTGGGA	AGGAGACAGG	AGGAGTTTTG	CTGATTTGCT
2901	TGATTTTTTT	TTTCTTTTTT	AGCTTGTTAG	AAGCGGCCTG	TAACTGCTTT
2951	GAGAAACAAA	TATTTTCTTA	CTGTCTTCAA	TTATGCATCC	CCAATTTAAC
3001	TTGAGGGAAA	AATCACTTTG	GAGTTGAAAG	TTTCACTCTA	TTCATTTTCT
3051	TTTGATGGTA	TCAGATTTCA	ATACATCTCA	GACCCTGTTT	TTCTTCTGTG
3101	TCCTATTACA	TTCCAAAACA	TGTTGTGATT	GTAAAACTCT	TAGAGTATAT
3151	TAACAATTTG	GGATATTTGG	CATAATCAGA	GAATAGGTCC	AAAAGGAGGC
3201	AATAGGATAT	TCTATTAATA	ATTGTAATTG	CCATTTTTAG	CATTTCCTGT
3251	TATGTACTAT	GCTCTTGTCA	AGTGCTTTGA	AGATAGTGTT	TTACTTTTCC
3301	TTCCCACCAC	CAGCAATGTT	TATGAGGTAG	ATGTTTTTAT	ACATGTTCTA
3351	TGGATAAGGA	AACTGAGTCT	AATTGGCCCC	GGCTGGGAAC	TAACGCTAGG
3401	GAAACGGCAG	ACCTGCATTA	GAACTCAGCT	ATGTCTGACT	TCAAACACAG
3451	GCTCAGTAAT	ATGTGGAAAA	GCTTCCCAAT	TAACTTTGTC	ТАТАААСТТТ

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3501	GTGTGAGTCT	GGATTTTGAC	TTACTCTTTG	TCTTTACGCA	TCTGAGAGGA
3551	CCCATGTAGG	AAATAATTCT	TCTATATAAG	TGACCCTTCC	TGACTTCATT
3601	CATGAAAAGC	TTATGTTTGA	AGGGTGACAC	GACCTAAAAA	AGAGTACAAA
3651	ATAGCTTTTG	ATTACATTTA	TAGCTTTGCT	CTGATATCCT	AATACCTACT
3701	AGTCCATTCC	TGGTATCCAC	CCTACCTGAC	TTTCTAAAAA	TTTAGAATTA
3751	TAGAGACTAA	TTATGATTAA	TTAAGATAGG	TTGTTGTTCA	GTTGCCACTG
3801	GATTCAGAGT	GCCTAGTTTG	AATCTCTCCC	ATTCACTATC	TGTGGACCCC
3851	TTCGGAACCT	AACGTATCCA	AATTAGTTTT	TGTCATCTAG	AATAAGGATA
3901	AAATTGTACC	ATCTTCATGA	AGTTGTTAGG	ATCATCCACA	AATTTTAGTT
3951	TGCGCAATGC	TTGGCATGAT	ACAAGCACTC	AATAAATTTA	TCATCTTCCT
4001	CTTTATCATC	ACTATTACAT	TTATTATCAT	TAATAACCAT	ACCAATTTTT
4051	GGTTGTTGTT	AGTTATAATT	ATCATTTTTG	TATGTATTTA	ACATAGCCTA
4101	GGAGGCAATG	CCCAGTTCAG	AAAACATAAT	GGCAAAGCAA	GAGTGTCTAA
4151	GGCACACTCT	TTCTCCCATC	TCTCTCTTCT	TTCTTCTCCA	TTCTTTCCAC
4201	TCTATCCCCT	CTTCTCTTTT	TTTTCTCAAT	CTCCTTAGAT	GTGGACATAT
4251	GTGTGAATTC				

Fig. 7 (cont'd 2)

#### Human genomic sequence

1	TGTGGGTGTG GGTGTGAAGC ATGTGTATGT GTGTGTGA AGCATCTCCC
51	CACCTGTAAT GTAAGTCCAT GAGTGCAGAA TTTTTGACAT ATTCTTTACG
101	TGTTGAGTTT TAACAAATGT TTGTGGAGTG AATGAACAAA TTAATGAATA
151	TAGGCTATTT ATTAATTAGG CAATATAGTC ACATAGGCTG GCAATCGCAT
201	CTAATTAAAT AGAGTGGTAA ATGAGTTCCA GAAAGAACTA AGGTACTACA
251	AGGATGTTAT GAAAGAGAAA AATGAGTTAT GTGAAAAATA GGAGACAGTG
301	ATAAGAGGGA AAGAATCCCA AAGTGTGGGC CACATTTTGA AACTAATGAC
351	CTATTATTCT ATTATTGTTA GCTGAAAGTA GAAAACGTCA TGGGAGGGAA
401	TATCTGCTAG TTTTTGGTAA AGGATGTTGT GATGGCAGAA CCAAGAAATG
451	AACACAAGGT GACTTTGGTT TGGGGACAGT GGGATAATCA ACTCTCCTTG
501	CTCCATCAGG GCCCCAGACT GGGCTCTGGC AGAGGAACTC AGAACAACGT
551	AAAGACCTAG ATAGGTATCT AATAAATTGG GACCTGTGAA AACAGTGCCT
601	CTTAAAGTGT GGTACCTGGA CCAGCAGCAG CAGCAGCAGC AGCCATTGAA
651	ACTTCATAGA AAGACAGATT CTCAGCTTCA TCCAAGACTT ACTGAATTAG
701	AATATCTCAA GGTAAGGCCT GGTAATCTGA GCTTTAACTA GCCCTCAAGG
751	TGATTCTTAA GTTCAAGCAT CACTATATTA AGTTGAACAA ATAGATGCCA
801	GGCCTATAÀA TACATGTAAC GCCTAGCATA AATATTTCAA CATTAAAAAT
851	GACATTTCAT AGTTCTTATT TACCCTATTA GCTGTGTTCT GTCAAGATAA
901	TGAGAATATT GATATGTTAG AATACACTGA TGCACTAATT TTTAAATTAG
951	ATCAAATAAT GACTTGTTAT ACCTGAAATA AATTGGTTCA GCTTGGTAGA
1001	TGCAGTTTTT GAGAATTATA TAAGTCATTT TTAAAAGAAT AATTTTAACT
1051	TGAGCTGCTT GCATAAATTA AATTGCAAAA AGGTCATAGT ATAAATCCTC
1101	CTATTAGCAG AGATAGAAGG TTTTTAAAAA AATTACAGAT AAGTCTGAAG
1151	GTCTTTTAAA ATCTTATATT CAGGAAGTGA CTCGGGATGT ATATCATTTT
1201	AAAATACATG GTCTTAAATG TTGTAGTTGT ATGACTCTTT CAGTTAATTT
	AAAATACTTC CTTCTATGAA AAATTGTTTC AAAAATTTTT CTAAATTCTG
1301	THE TAXABLE PROPERTY OF THE PR
1351	TTGTTCATGT TTACTAAAAA AAAAATTACT GTAATTGAGA TCATGTAAAA
	ACATGTTTCC TGTCTATTTG TCTTAACCTT TTAATCCTGG CACCTTAAAT
1451	TTGACATAGT AGGAATTAGA AGACAATTGC AGAAAATGTC AACTGGGGAA
1501	ATTTTATTCT ACTAAAAACT ATGTCCATAC AACATAGCAA ATCACATTTT
1551	AAAGGCCAAA AAGTCTTTCA TAGCAATTTT TCAGATTATT TTCAAAGCAT
1601	ATCTTCTCT TGCTCCTGCA GCATGCCGTT GATTTTTCTG TTATGCAGTC
1651	THE THE THE THE THE THE THE THE TEACHER GARCACGARA
1701	CAGTTAAATG TAGAATAATA TCCAATCCAT CTTTTTATCA CCAGTAGCTA

1751	GCATACTGTA	GGAACTCAAT	AAATATATCA	GATAAATTGT	GGAAATAACC	
1801	ATATCAGCTT	ATAACATATA	GAAATGTGAG	TTTAAAAAGA	AAACAATTAT	
1851	ACATATGAAA	AAATTTTTAT	ACCATTTTTT	TAAAGACCTT	TCAGATGTCA	
1901	TACAGTTTGG	ACTTTTCCAG	TGTTTCTTGT	ATCATGAGAC	AATAGTAGAC	
1951	ATTGTAAATC	AAAAATAGTT	TTCTGGGGTT	GTGTACATTT	GAAAAAACTG	
2001	AATATCATAT	CTGTTCTTAG	AGAGTAATGA	TGGATATTAA	CATATCAAAG	
2051	GTACAGAGAA	GTCTTAAAGT	TCAAAGTAAC	ATCTGCTTAA	TŢGTATTTAA	
2101	TTCAGTGCTC	CATGAGCTTT	TTTATCACTG	ATTCCCTCCC	TTTTTTCTCT	
2151	TATGATAATA	ATTAACTTGT	TCCTGTAGCA	TTTTAAGAAA	TGTTGATTTA	
2201	GTTGAATGCC	TTCACTTCTC	СААТАТААТА	GCAGAAACTC	AGAAATATTT	
2251	ATTTACCCAG	AATCATGCAG	CTAATAGTAC	AAGGATTCAG	GTCTTTTACT	
2301	TCCTATTTTG	TGGTTCCCAA	CTACTTTTGC	CAAAGGTCTT	TTAAATAATA	
2351	TGAAACATAT	TAGTGATTGA	TTCATTATAG	TAAATGGGTA	AATGATAAGG	
2401	CTTGCAATAA	TTCACTGACA	AGAAAGCTT			

Fig. 8 (cont'd)

<u>.</u>

#### Murine cDNA sequence

1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
61	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
121	CCCTCGTCTACAGGCTGGAGATGCCCCCTCCATGGGCGCTGGATATTCTCGAAGCGGTAC P R L Q A G D A P S M G A G Y S R S G T
181	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
241	TGCTGTCTCGCGTCTGGGAAACATGTCACAAATAGATATGAGCGAGAAAGCAAGC
301	CCTGGATGTGTCTTCTGAAGTGGATGTTGGTGGATACATGAGCGATGGTGATATCCTTGG L D V S S E V D V G G Y M S D G D I L G
361	GAAGAGTCTGAGAGCGGATGATATCAACAGTGGGTACATGACAGATGGTGGGCTCAACCT K S L R $\lambda$ D D I $N$ S G $Y$ $M$ T D G G L $N$ L
421	ATATACCAGAAGTCTTAACCGAGTCCCGGACACAGCAACTTCCAGAGATGTCATACAGAG Y T R S L N R V P D T A T S R D V I Q R
481	AGGCGTTCACGATGTGACAGTGGACGCAGACAGCTGGGATGACAGCAGTTCTGTGAGCAGGVHDVTVDADSWDDSSSVSS
541	TGGCCTCAGTGACACACTTGATAACATTAGCACAGATGACCTCAACACCACGTCCTCCAT G L S D T L D N I S T D D L N T T S S I
601	CAGTTCTTACTCCAACATCACTGTCCCCTCCAGGAAGAACACTCAGCTGAAAACAGATGC S S Y S N I T V P S R K N T Q L K T D A
661	GGAGAAACGTTCGACAACAGATGAGACCTGGGATAGTCCTGAGGAGCTGAAGAAAGCCGA E K R S T T D E T W D S P E E L K K A E
721	GGGAGATTGTGACAGCCATGGTGACGGAGCCGCCAAGTGGAAGGGTGCTACTTCTGGACT G D C D S H G D G A A K W K G A T S G L
781	TGCTGAAGACTCGGAGAAGACAGGCAGAAAGCCAGCCTGTCTGT
841	CTGGAGGAGGCATGTCTGCCCAGGGAGGAACTCCAGCTACAGCTAGGCAGAAAACCAG W R R G M S A Q G G T P A T A R Q K T S
901	CACAAGTGCACTCAAGACCCCTGGGAAGACAGATGATGCCAAAGCTTCCGAGAAAGGGAA T S A L K T P G K T D D A K A S E K G K
961	AACTCCTCTAAAGGATCATCCTTGCAAAGGTCTCCTTCAGATGCAGGGAAAAGCAGCGG T P L K G S S L Q R S P S D A G K S S G
1021	GGATGAAGGGAAAAAGCCACCGTCAGGCATTGGAAGATCGACAGCCAGC
1081	ATACAAGAAGCCAAGTGGTGTAGGGGCTTCCACTATGATTACCAGCAGCGGTGCCACCAT Y K K P S G V G A S T M I T S S G A T I
1141	CACAAGCGGTTCAGCTACACTGGGGAAAATCCCCAAATCCGCTGCCATTGGTGGGAAGTC T S G S A T L G K I P K S A A I G G K S
1201	CAATGCAGGAAGGAAAACCAGCCTGGACGGGTCCCAGAATCAAGATGATGTTGTCCTGCA N A G R K T S L D G S Q N Q D D V V L H
1261	CGTGAGCTCGAAGACCACCCTCCAGTACCGTAGTTTGCCCCGCCCTTCTAAGTCCAGCAC V S S K T T L Q Y R S L P R P S K S S T
1321	CAGCGGAATCCCTGGGAGAGGTGGCCACAGGTCGAGCACCAGCAGTAGATTCCAATGT S G I P G R G G H R S S T S S I D S N V

1381	CAGCAGCAAGTCAGCTGGGGCCACCACCTCCAAACTGAGAGAACCGACTAAGATCGGCTC S S K S A G A T T S K L R E P T K I G S
1441	AGGGCGCTCGAGTCCAGTCACCCAAACAGACAAGAGAAGGAGAAAGTAGCAGT G R S S P V T V N Q T D K E K E K V A V
1501	GTCAGATTCAGAGAGCGTTTCCTTGTCAGGTTCCCCCAAATCCAGCCCCACCTCTGCCAG S D S E S V S L S G S P K S S P T S A S
1561	TGCCTGTGGGACTCAAGGCTCAGACAGCCAGGGTCCAAATATCCAGATATTGCCTCGCCAACCAA
1621	CACATTTCGAAGGTTGTTCGGTGCCAAGGCAGGCGGCAAATCTGCCTCCGCACCTAATAC T F R R L F G A K A G G K S A S A P N T
1681	TGAGGGGGCGAAGTCCTCCTCAGTAGTGCTCAGCCCTAGTACCTCTTTAGCCCGACAAGG E G A K S S S V V L S P S T S L A R Q G
1741	CAGTCTGGAGTCACCGTCGTCCGGTACGGGAAGCATGGGCAGTGCTGGTGGGCTGAGTGG S L E S P S S G T G S M G S A G G L S G
1801	CAGCAGCAGCCCTCTCTCAATAAACCCTCAGACCTAACTACAGATGTTATAAGCTTAAG SSSPLFNKPSDLTTDVISLS
1861	TCACTCCTTGGCTTCCAGCCCAGCGTCGGTTCACTCTTTCACATCCGGTGGGCTTGTGTG H S L A S S P A S V H S F T S G G L V W
1921	GGCTGCCAATCTGAGCAGTTCCTCTGCCGGCAGCAAGGACACTCCAAGTTACCAGTCCAT A A N L S S S A G S K D T P S Y Q S M
1981	GACTAGTCTCCATACGAGCTCTGAGTCCATTGACCTGCCCTCAGCCATCATGGCTCCCTT S L H T S S E S I D L P L S H H G S L
2041	GTCTGGACTGACCACAGGCACTCACGAGGTGCAGAGCCTGCTCATGAGAACGGGTAGTGT S G L T T G T H E V Q S L L M R T G S $_{\ \ \ }$ V
2101	GAGATCTACTCTCAGAAAGATACACCCCATCATCTCGGCAGGCCAACCAA
2161	CAAAGAGTGGCTGCGATCCACTGGCGGGCTGCAGGATACTGGCAACCAGTCTCC K E W L R S H S T G G L Q D T G N Q S P
2221	CTTGGTCTCCCCTTCTGCCATGTCATCGTCAGCCACCGGAAAATATCACTTTTCCAACTT L V S P S A M S S S A T G K Y H F S N L
2281	GGTGAGTCCCACCAACCTCTCCCAGTTTAACCTGCCTGCACCCAGTATGATGCGCTCCAG V S P T N L S Q F N L P A P S M M R S S
2341	CAGTATCCCCGCCCAGGACTCCTTCGACCTCTATGATGATGCCCAGCTTTGCGGTAG S I P A Q D S S F D L Y D D A Q L C G S
2401	TGCAACTTCCCTGGAGAAAGGCCACGGGCCGTTAGCCACTCCGGCTCATTCAGAGACAGAACAGAAACACAAACAA
2461	CATGGAGGAAGTTCATGGCTCTTCACTGTCATTGGTCTCCAGCACATCATCCCTTTACTC M E E V H G S S L S L V S S T S S L Y S
2521	TACGGCTGAAGAGGCTCATTCAGAGCAAATCCATAAGCTACGGAGAGAACTGGTTGC T A E E K A H S E Q I H K L R R E L V A
2581	CTCCCAGGAGAAAGTCGCTACCCTCACGTCTCAGCTGTCAGCAAATGCTCACCTTGTAGC S Q E K V A T L T S Q L S A N A H L V A
2641	AGCTTTTGAAAAGAGTTTAGGGAATATGACTGGCCGTTTGCAAAGTCTAACCATGACAGC A F E K S L G N M T G R L Q S L T M T A
2701	GGAACAAAAGGAATCTGAGCTTATCGAACTGCGGGAAACCATTGAAATGTTGAAGGCCCA E.Q K E S E L I E L R E T I E M L K A Q

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2761	GAAC	TC:	rgc'	rgc(	CCA	AGC.	AGC	CAT	TCA	GGG.	AGC.	ACT	GAA	TGG	CCC	AGA	CCA	$\sim$	ישרכר	ממים:
	N	S	A	A	Q	A	A	I	Q	G	Α	L	N	G	P	D	Н	P	P	K
2821	AGAT	CTC	cce	CATO	CAG	AAG.	ACA	GCA	CTC	CTC	TGA.	AAG	TGT	TTC	TAG	TAT	CAA	CAG	CGC	AAC
	D	Ъ	R	1	R	R	Q	Н	S	S	Е	S	V	s	S	I	N	S	A	T
2881	GAGC	CAT	TC	CAGO	CAT	rgg	CAG'	TGG'	TAA'	TGA'	rgc'	TGA	CTC	CAA	GAA	Α				
	S															•				

Fig. 9 (cont'd 2)

#### Murine genomic sequence

1	GGGATGAAGG	GAAAAAGCCA	CCGTCAGGCA	TTGGAAGATC	GACAGCCAGC
51	AGTTCTTTTG	GATACAAGAA	GCCAAGTGGT	GTAGGGGCTT	CCACTATGAT
101	TACCAGCAGC	GGTGCCACCA	TCACAAGCGG	TTCAGCTACA	CTGGGGAAAA
151	TCCCCAAATC	CGCTGCCATT	GGTGGGAAGT	CCAATGCAGG	AAGGAAAACC
201	AGCCTGGACG	GGTCCCAGAA	TCAAGATGAT	GTTGTCCTGC	ACGTGAGCTC
251	GAAGACCACC	CTCCAGTACC	GTAGTTTGCC	CCGCCCTTCT	AAGTCCAGCA
301	CCAGCGGAAT	CCCTGGGAGA	GGTGGCCACA	GGTCGAGCAC	CAGCAGCATT
351	GATTCCAATG	TCAGCAGCAA	GTCAGCTGGG	GCCACCACCT	CCAAACTGAG
401	AGAACCGACT	AAGATCGGCT	CAGGGCGCTC	GAGTCCAGTC	ACTGTCAACC
451	AAACAGACAA	AGAGAAGGAG	AAAGTAGCAG	TGTCAGATTC	AGAGAGCGTT
501	TCCTTGTCAG	GTTCCCCCAA	ATCCAGCCCC	ACCTCTGCCA	GTGCCTGTGG
551	GACTCAAGGG	CTCAGACAGC	CAGGGTCCAA	ATATCCAGAT	ATTGCCTCGC
601	CCACATTTCG	AAGGTAAGGG	TATGTAAAGA	GATGTTGGGA	AAACATAAAA
651	GGTAGTATAT	AGCATGTATT	TATTCTGTAC	GAAACTATTT	TCATGTATTC
701	ТАААТАТТСТ	AAGATTCTGT	ATCTTATACT	TGTCTAAAAT	ATAGTGATTT
751	TATTTTGCTG	ATTGCACCTG	TTGCTAGTGT	AAAAGCATTG	CTCATTTAGA
801	GAGTGGTTAG	CCTTTCAGCT	ATACAGCCAG	TGTGACACTA	AAATACAGAT
851	ACCACTTGTA	GCGGGCATAA	AACCACATGA	CTGACTATTC	ATAGAAATAA
901	AGTGATAGCT	TGTAAAGATA	TTTAGTGATT	TCCACCTCTC	CTTTCCAGAA
951	TTAAAAAAAG	CAAATTGCAT	AGATCTTTAT	AAACACATTT	ACTTCTAGTG
1001	TATGTTATCT	TGTTGACTCT	TAATGAAATG	GCAGTTATGA	ATATAGATGA
1051	TATATTCTTT	CTAACAGTTT	ATAAGAGACC	AATTTATACA	GTACCAGATC
1101	TTAACATAGT	AACAATAACA	GCAACAAAAA	CAACCCAAAA	AGCTATCAAA
1151	GTATGGTCTG	ATTGCAGAAT	TTGAAAACAT	TTACATGTTT	GACATAGGAC
1201	AAGAACTCAG	GAGTGAGGTG	ACTTTTTATA	AGTCTTCATC	AATGTCCTTT
1251	TACAGGAACC	AGGAAGCATA	TCTGATATAT	GTGTCAGGAT	TATCACTTTA
1301	TTAATTATGT	GAAATTCTGT	TTAGAAATCT	ACCTGATTTT	AAATACTTTA
1351	ATATAGTAGG	GGTCAAAATT	AGTTAATGAG	TTAAGACAAG	TTGTTAAATA
1401	ATCCTGGCTC	TGTTTTCTCA	TCTTCAAAAT	GATAGAGTAT	AATTTATCAC
1451	CTCTTGTTAA	ATATTTCAGG	TTTGTGTTTA	TTCTCTTGAT	AACTTTGATC
1501	TCTTAGAAGA	GTCTTGAAGA	ATTTACATTA	AGTAATCTTA	GAAACATAAC
1551	TATTTGAGAA	ACAGTAGTCA	AATTTTGTCA	TTAGAAGTAT	TAACTCTGAA
1601	GAATGATTTG	AAGTGACAGT	TCTTAGAAAG	TATTAAATTAA	AGCTTGTAGC
1651	AAGAGTAAAT	ATTTTCACTG	CTTGTGTGAG	AGCCAAGAGC	GCCCTCTTGT
1701	GGCCCATTAC	CTATGAAACA	ATTTCTCATA	TTCGCCCTAG	AAATCTTCCA

1751	CTGCAGGAAA	TAATGGATTT	CATTGCCTCT	GAATTAGTAA	CCATTCTGCC
1801	ATTTCTTCAT	ACCATTTTAT	TTCCATACTT	GCATAAATTT	GATTATGTCA
1851	TCTGCTTCAT	TTACAAAACT	AAAATGTTTT	CTGAGCTAAA	CTCCAGTAGC
1901	TAACTTAGTA	CAAATGGTAT	TTTTAAATCA	CTGCTATAAG	TATATATATT
1951	TGAATAGCTC	TGGCAACGGA	CGGAAATCCC	TATGGTCTTT	CCATGGGAAG
2001	ATACAAACCA	ATCCATAAGT	TGTCCAGCAA	TATCCAATAT	TTCCAGCCCA
2051	GCCAGTCAGG	CCTCTTAAAC	ATTACCTTAC	ATATTTGAAC	CTTTCCTTAA
2101	ATGTCCCCTT	TAGACAATCT	ATTTTTTAAA	AAGATGAAAA	TCCATTTAAG
2151	CATCATATAT	CGAATGCGTA	GAAGTTGTTT	CATTATAATG	GTTCTGCAGA
2201	TAGGTAATGC	CAAAACGGCC	AAAATATTTG	ATCACTAGAA	GCGTAAAAGT
2251	CAAGTACAAT	CATGTTGACT	TTTTTTCCAA	GGTGGGTTCA	CTGCTGCCCA
2301	CCTTGGTTCC	AGGCCAGTGC	TTACTTAAGA	TATCGTAAGT	GATTTTTTT
2351	TAATTTTTAA	TTTTTTAGTA	GTTGGTTAAT	CAAAAGCCAG	TCATGTCACC
2401	TTCAGGAACA	TAGAGGCTGG	ACGTGCTTGG	CAGCTCACGA	CTCCAAAGCA
2451	CACTTGGCTC	TGTGGACTGA	AACCCTAGGA	AACGTGGATG	TGAGTCTCTT
2501	GGAACAACTC	AAGTTGTTAT	TTGTTTTTCT	TTTAGGTTGT	TCGGTGCCAA
2551	GGCAGGCGGC	AAATCTGCCT	CCGCACCTAA	TAC	

Fig. 10 (cont'd)

097974549

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T2HC

#### Homologous human cDNA

	D	Q	L	R	E	Т	М	Н	N	M	Q	L	E	v	D	L	L	K	A	E
61					'GAA K													GCA Q		
121 -	TGG G				ATT. L															
181					TGC.													TTG C		TCC P
241					GAC T															
301			-		.GCA															
361					TGA E															
421	AGC A	CTC S	TAC T	CCT L	GGG.	ACT. L	AAG S	CAC' T	TGA(	GTC(	CAT(	CCA' H	TGG( G	CTA( Y	CAG( S	CAT	CAG S	CCA H		
481				GGA D	TGC A			CCC												
541					CAA K															
601			-	.GCC P	GAT(			GCA(											CCT	
661					CAG(															
721					TGG(														GCA	
781	GCA	GTC	TTG	CAA	GGA' D	TCT(	GCA.	ACT(	GTA:	rct:	rtc(	CAA	CCT	AGC	CAAC	CCA	GAT.	AGA	CCG	- GGA
841	AAC	AGG	AAT	TGG	GGA' D	TGT(	GCC	CCT(	GGT(	GAT.	гста	TTA	GGA'	rgac	CCT	GAG'	rga.	AGC	AGG	CTC
901	CAT	CAG	TGA	G <b>T</b> T	GGT(	CAA'	TGG	GGC	CCT	CAC	CTG	CAAC	GTA:	rcan	LAA7	ATG'	rcc	CTA'	TAT'	TAT
961	AGG	TAC	CAC	CAA	TCA	GCC'	rgt.	AAA	TAA	SAC	ACC	CAA	CCA!	rggo	CTTC	GCA(	CTT	GAG	CTT	CAG
1021	GAT	GTT	GAC	CTT	Q CTC	CAA	CAA	CGT	GGA	3CC2	AGC(	CAA	rgg	CTTC	CTC	GT'	rcg'	TTA	CCT	GAG
1081					S AGA															
1141					E ACC															
	L	Ď	W	V	P	K	L	W	Y	Н	L	Н	T	F	L	Ē	K	H	S	_T

Fig. 11

1201		ハひれい	-11													100	Crii	TOW	3022	C 1 1
	S	D	F	L	I	G	P	С	F	F	L	S	С	P	Ι	G	I	Ε	D	F
1261	CCG	GAC	CTG	3TTC	CTAC	rga(	CCT	GTG(	GAAC	CAAC	CTC	rat(	CAT'	TCC	CTA	TCT	ACA	GGA.	AGG.	AGC
	R	T	W	F	I	D	L	W	N	N	S	I	I	P		L	Q	E	G	A
1321	CAA	GGA'	TGG	GATA	AAA	GT	CA'	rgg	ACA	SAA	AGC:	rgc:	rtg	GGA	GGA	CCC	AGT	GGA.	ATG	GGT
	K	D	G	I	K	V	Н	G	Q	K	Α	A	W	E	D	P	V	E	W	V,
1381	 CCG	GGA	CAC	ACT	rccc	CTG	GCC/	ATC	AGC	CCA	ACA	AGA	CCA	ATC	AAA	GCT	GTA	CCA	CCT	GCC
	R	D	T	L	P	W	P	S	A	Q	Q	D	Q	S	K	L	Y	H	L	P
1441	CCC.	ACC	CAC	CGT	GGG	CCC	rca(	CAG	CAT'	rgc	CTC	ACC:	rcc	CGA	GGA	TAG	GAC.	AGT	CAA	AGA
	P	P	T	V	G	P	Н	S	I	A	S	P	P	E	D	R	T	V	K	D
1501	CAG	CAC	CCC	AAG:	rrci	CTC	GGA(	CTC	AGA'	rcc'	rcr	GAT(	GGC(	CAT	GCT	GCT	GAA	ACT	TCA	AGA
2002	S	T	P	S	S	L	D	S		P	Ļ	M	A	M	L	L	K	L	Q	E
1561	AGC	TGC	CAA	CTA	CAT	rga(	GTC'	rcc	AGA'	rcg	AGA	AAC	CAT	CCT	GGA	CCC	CAA	CCT	TCA	GGC
	A	A	N	Y	I	E	S	P	D	R	E	Т	I	L	D	P	И	L	Q	A
1621	AAC. T	ACT' L	TTA	AGG	3TTC	CGG	CAA'	rca(	CTG'	rca(	CCC	CCG	GAC.	AGC	AGA	ACG	CTG	GCA <sup>4</sup>	TCA	GCT
1681	ATC	TTA	GCT	CCT	CCTC	CTC	ccc'	rct	CCT	CTT'	rca(	GAG(	CAC'	TGG	CTC	TCC	AGC	CCC.	AGG.	AGG
1741	AGA	ACA	GGA\	GGG	AGGA	AGG	AGA'	rga.	AAG	AGG	AGG(	GAC	AGG'	TTC	TTG	GTG	CTG	TAC	CTT	TGA
1801	GAA	CTT	CCT	AGG	AAGO	'AAE	rgg'	rgg	GGT	GGC	GTT'	rgg	GAA	CTT	GTG	CCC	CCT.	AAA	CAC.	ATT
1861	TAC	TGG	CCT	CCT	CTAZ	ATG	ACT'	rtg	GGG.	AAA	AGA'	rga:	PTC'	TGG	GTC	TTT	CCC	TTG.	ACT	TCT
1921	TGT	TTC.	AAT'	raca	AAA(	CTC	CTG	GGC'	rtt(	CTG	GGG.	AGG	GGT'	TCA	GAA	AAC	ATC.	AAA	ACA	CTG
1981	CAG	CAG'	TTC	CTA	TAP	SAT	rc T	CAC	AAG	CAA	CCC'	rga(	GAG.	AGA	CAG	TCT	TGT	GAG	GGA	GAT
2041	CTG	GGG	GAG	GCA	3GAZ	AGC'	rcc'	rca(	GAT'	rtt(	CTC	ACA(	GAC	CCT	TCC	CAA	TTC	CAT	CAC	CAC
2101	TGC	CAA	CAA	CTC	CTC	CCC	CAG	AGA!	rcr(	GGC'	rgg	AGC	CCA	GAA	AAA	GAA	GCA	TGT	GGT	TTA
2161	AAA	AAT	GTT'	TAAT	ATC	TA	CTG'	ΓAΑ	AAG	GTA	AAA	ATG	AAA	AAC	AAA	AAC	AAG	CAA	ACA	AAC
2221	AAA	AAA	CAA'	TGG	AAA	AGA'	TGA.	AGC'	rgg.	AGA(	GAG	AGG	AAC	CAG	TTG	CCA	AGG	TAG	AGA	GCT
2281	GCC	CGC'	TCC'	TGC	CCT	CTG	GAT(	GAC	ATA	GGG	GAC	ATC	AAC.	AAG	ACG	GCT	GCC	AAC	CTG.	AGA
2341	AGT	CAC	CAA	ACC	ACAZ	AAA	ATA	ACC'	rta(	CAG	CCT'	TCA(	GGG.	AAA	GAC	TAC	CAG	CTC	TGT	CTT
2401	ጥርጥ	ACC	CTC'	יאאד	гтти	AAC	ΑΑΤ	GCA	TAA	GAG'	TCA.	ATA	AAC	ССТ	ACT	TTT	тта	AAA	AAA	AAA

Fig. 11 (cont'd)

Homologous murine cDNA sequence

1	GAACTATGGGAAAAAGAGATGAAGCTCACGGATATCCGGTTGGAGGCCCTCAACTCTGCC E L W E K E M K L T D I R L E A L N S A
61	CACCAGCTGGACCAGCTTCGGGAGACCATGCACAATATGCAGTTGGAGGTGGACCTGCTGHQLDQLDQLDQLDQLDQLDQLDQLDQLDQLDQLDQLDQLDQ
121	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
181	CAGGTCCCTGGGTCATCGGCTCTGTCGTCCCTCGACGTTCCCTGGGCCTTGCACTCAGC Q V P G S S A L S S P R R S L G L A L S
241	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
301	TGTGGTTCAAAGGAAGAGGTGACCCTGCGGGTGGTGGTCCGGATGCCGCCCCAGCACATC C G S K E E V T L R V V V R M P P Q H I
361	ATCAAAGGGGACTTAAAGCAGCAGGAGTTCTTCCTGGGTTGCAGCAAGGTCAGTGGCAAA I K G D L K Q Q E F F L G C S K V S G K
421	GTTGACTGGAAGATGCTGGATGAAGCCGTTTTCCAAGTGTTCAAGGACTACATTTCTAAA V D W K M L D E A V F Q V F K D Y I S K
481	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
541	CACGTGAAACGAGTGCTGGATGCTGAGCCCCCAGAGATGCCTCCTTGCCGCCGAGGTGTC H V K R V L D A E P P E M P P C R R G V
601	AATAACATATCAGTCGCTCTCAAAGGTCTGAAAGAGAGTGTGTCGACAGCCTGGTGTTCNNISVALVA
661	GAGACGCTTATCCCCAAGCCCATGATGCAGCACTACATCAGCCTCCTGCTCAAGCACCGG E T L I P K P M M Q H Y I S L L L K H R
721	CGCCTGGTGCTCTCCGGCCCAGTGGCACCGGCAAGACCTACTTGACCAATCGGCTAGCC R L V L S G P S G T G K T Y L T N R L A
781	GAGTACCTGGTGGAGCGCTCCGGCCGCGAGGTCACGGATGGCATCGTCAGCACTTTCAAC E Y L V E R S G R E V T D G I V S T F N
841	ATGCACCAGCAGTCTTGCAAGGATCTGCAACTGTACCTCTCCAACCTAGCCAACCAGATA M H Q Q S C K D L Q L Y L S N L A N Q I
901	GACCGGGAAACAGGGATAGGGGATGTGCCCTTGGTGATCCTCCTGGATGATCTGAGTGAA D R E T G I G D V P L V I L L D D L S E
961	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1021	TACATTATAGGTACCACCAATCAGCCTGTAAAAATGACACCCAACCATGGCTTGCACTTG Y I I G T T N Q P V K M T P N H G L H L
1081	AGCTTCAGGATGCTGACCTTCTCGAACAATGTGGAACCAGCCAATGGCTTTCTGGTCCGT S F R M L T F S N N V E P A N G F L V R
1141	TACCTGCGGAGGAAGTTGGTAGAGTCAGACAGTGACGTCAATGCTAACAAGGAAGAGCTG Y L R R K L V E S D S D V N A N K E E L
1201	CTTCGGGTGCTGGACTGGGTGCCCAAGCTGTGGTATCACCTCCACACCTTCCTGGAGAAG L R V L D W V P K L W Y H L H T F L E K
1261	CACAGCACCTCGGACTTCCTCATTGGCCCTTGCTTCTTCCTGTCCCATTGGCATC H S T S D F L I G P C F F L S C P I G I
1321	GAGGACTTCCGGACCTGGTTCATTGACCTGTGGAACAATTCCATCATCCCCTATCTACAG

1381	GAAGGAGCCA	AGGATGG	SATCAAG	GTTCAT	GGACAGA	AAGCTGC	TTGGGA	AGACCC	GGTG
	E G A K	D G	I K	V H	G Q K	A A	W E	D P	V
1441	GAATGGGTCC	GAGACACI	CTTCCC	TGGCCG	TCGGCCC.	AACAAGA	CCAATC	AAAGCT	CTAC
	E W V R	D T	L P	W P	S A Q	Q D	Q S	K L	Y
1501	CACCTGCCCC	CGCCTTCI	rgrgggc	CCCCAC	AGCACTG	CCTCACC	CCCGGA	GGACAG	SACA
	H L P P			P H	S T A		PΕ	D R	T
1561	GTCAAAGACA	GCACTCCA	AACTCC	CTCGAC	TCAGATC	CCCTGAT	GGCCATO	GCTACTO	GAAA
	V K D S	T P	N S	L D	S D P	L M	A M	L L	K
1621	CTCCAAGAAG	CTGCCAAC	TACATT	GAGTCA	CCAGATO	GAGAGAC	ጥልጥርርጥር	GACCC	ראאר
	L Q E A				P D R		I L	D P	N
1681	CTCCAGGCGA L Q A T		AGGGCCC	GGCAGT	CACTGTC.	ACCCTGG	AGGGCAG	GAAGGC	rggc
1741	TTCAGCATCA	TTAGCTCI	CCTCTG	CCCTCT	TCCTTCA	TAGCTCT	GGCTCA	CCAGCCT	rcgc
1801	CAAGAGAACA	GGAGGGAA	AGAAGAG	GGCAGG	AGGAGGG	ATGGGTT	CTCGGT	GCTGAA	CCTT
1861	TGAGAACTTC	CTACTAGG	SAATTGG	AGGGGG	TGGAGTT'	TGAGAAC	TCCGTG	CCCTTA	AACT
1921	ACATTTGCTG	GCCTCCTC	TTACGA	CTTAGG	AGAAAAG	ATGATTC	TGGTCTT	PTTCTTC	CAAG
1981	TTTTGTTTCA	CCTACAAA	CTCTTG	GGCTTT	CTGGGGA	GGGATTC	GGAAGAT	OKAKTKI	CAGA
2041	CAAACAAAÀA	CAAACAAA	CCAACT	ACAGCA	GTTCCAA	GCTCGTT	CTCACA	AACACCI	rctg
2101	AGACAGTCAC	ATGTGGGC	CAAATCT	AAGGGA	GGCAGGA	AGCTCTA	CAGACTI	TCTTGC	CAAA
2161	CCCTTCCCAG	TTCTGTCG	ACACTG	CCAACA	ACCTCCC	CGCCAGA	GACCTGO	CCAGAG	SCCA
2221	AGAAAAGAGA	AGCATGTG	GTTTAA	CAGAAA	AACAAAA	CAAAACA	AAACAAZ	LATAAA!	ĐTẬT
2281	TGTAAATCAA	CCTGTAGA	AGGTAA	AAACGG	CAATGGA	AAAGATG.	AAGCTGC	BAAGGAG	GGG
2341	CCCAGTTGCC	AAGATGGA	ACGAGA	GCTGCC.	AGATCTT	SCCTTCT	GGATGAC	CAAGAGG	GGA
2401	CATTGCAAGA'	TGGCTGCC	AGTCTA	AAACGT	CACCAGA	CCACAAG	AGTAACA	TCACAC	CCT
2461	TCGAAGAAAG	GCCACAAG	CTGTCT	TTCTGC	CCTCTAA	CTGAACA'	TGCATGA	AAAGTC	TAAC
2521	AAACCCTACT'	TTAATTT	TTTAAA	AAAAA	AAAAAA	AAAAAA	AAAA		

Fig. 12 (cont'd)

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# T2 Murine cDNA with following intron

1				-+-										-+-			+			CAGC
	P	I	E	L	R	I	K	R	Q	N	S	s	D	S	I	s	s	L	N	S
																				GAAG
61				-+-			+				+			-+-	<del>-</del>		+			+
	I	Т	s	Н	S	s	I	G	s	s	ĸ	D	A	D	A	ĸ	K	K	K	K
121																				GTTG +
181																_				GTGT
241																				TATT
							_													
301																				ATAC +
361																				AAGG +
421																				CCAA +
481																				GGAA +
541																				GTGG +
601																				GGTG +
661																				CTGT
721																				TGTG
781																				TCTT +
	TT	CAT'	TGT'	TTT'	TTT'	TTT:	TTT	TTC'	TTT	CCT'	TTT.	ATT'	TCC'	TTC	AAA.	ATG	CTG	ACC	TCA	AATC
901																				TTCT
961																				AAAA +

09914549

#### 76/124

## splicing variant 1 (JFC410)

1	AGCGAGTTACTCACGCTTCCCCTCCATCGGAAGCCAGGCCAGGCCAAAACCCAGCAAGATA
	R V T H A S P P S E A S Q A K T Q Q D M
61	TGCAGTCCAGTCTGGCAGCCAGATATGCAACTCAGTCTAATCACAGTGGAATTGCAACCA
	Q S S L A A R Y A T O S N H S G I A T S
121	GTCAAAAAAAGCCTACTAGGCTTCCAGGGCCCTCTAGGGTGCCTGCTGCAGGAAGCAGCA
	OKKPT RLPGPSRVPAAGSSS
181	GCAACCTCCACCCACCTCTAATTTAAATAGGAGAAGTCAGAGCTTTAACAGCATTGACA
	K V Q G A S N L N R R S Q S F N S I D K
241	AA

bp 1 corresponds to bp 914 of THC

underlined sequence represents further splicing form and is not shown in the THC sequence  $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \int_{-\infty}^$ 

Fig. 14

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#### splicing variant

- 1 GGCACTCACGAGGTCCAGAGCCTGCTCATGAGAACGGGTAGTGTGAGATCTACTCTCTCA G T H E V Q S L L M R T G S V R S T L S
- 61 GAAAGATATACCCCATCATCTCGGCAGGCCAACCAAGAAGAGGGCAAAGAGTGGTTGCGT E R Y T P S S R Q A N Q E E G K E W L R
- 121 TCTCATTCTACTGGAGGGCTTCAGGACACTGGCAACCAG
  S TH S T G G L Q D T G N Q

bp 1 corresponds to bp 3300 of THC

underlined base pairs  $\rightarrow$  position of the differentially spliced exon which lacks here but is shown in the THC sequence

Fig. 15

## T2-cDNA sequence and T2 protein encoded therein

	CCG	CGG	GGC'	TTC	CAT	CCT	TCC	TTT	GAC	TGA	TTT	TTA	AAT	TTT.	TAA	TTG	TAT	TTT	CCC	CGC	
1	R		 А					_									-+- I		P	+ A	60 -
61	CGC																				120
			P																	r .	-
121	TTT																				180
			G																		-
181				+			-+-			+				+			-+-			+	240
	CCC																				-
241	 P		 L	+			-+-			+				+			-+-		 P	+	300
	GCC																				
301			D																		360 -
361	CAA																				420
301			v																		-
421	ACC																				480
																				R	-
481	CGC			+			-+-			+				+			-+-				540
	CTT																				
541		 к		+			-+-		- <b></b>	+				+		- <b></b>	-+-				600 -
	CAA	GCA	GAA	GTC	ACT	CAC	CAA	CCI	CTC												
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001	Y																			G	
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781				+			-+-			+				+			-+-		- 😎	GCC -=+ P	840
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	/9/124	
0.4.3	CAACCTGGGAAAGCCGAGCCGGATCCCTCGAGGACCCTATGCGGAGGTCAAGCCGCTCAG	}
841	N L G K P S R I P R G P Y A E V K P L S	900
	CAAGGCGCCTGAAGCGGCCGTGAGCGAAGATGGCAAATCGGACGACGAGCTGCTCTCCAG	÷
901	KAPEAAVSEDGKSDDELLSS	960 -
	CAAGGCCAAGGCGCAAAAGAGCTCTGGGCCTGTCCCCTCTGCCAAGGGCCAGGAGGAGCG	
961	KAKAQKSSGPVPSAKGQEER	1020
•	CGCCTTCCTCAAGGTGGACCCCGAGCTGGTGGTGACCGTGCTGGGAGACCTGGAGCAGCT	
1021	A F L K V D P E L V V T V L G D L E Q L	1080
	GCTCTTCAGCCAGATGCTGGACCCAGAGTCCCAGAGAAAGAGGACAGTGCAGAATGTCCT	
1081	L F S Q M L D P E S Q R K R T V Q N V L	1140
	GGATCTCCGGCAGAACCTGGAAGAGACCATGTCCAGCCTGCGAGGGTCCCAGGTGACTCA	
1141	D L R Q N L E E T M S S L R G S Q V T H	1200
	CAGCTCCCTGGAGATGACCTGCTACGACAGCGATGATGCCAACCCACGCAGCGTGTCCAG	
1201	S S L E M T C Y D S D D A N P R S V S S	1260
	CCTCTCCAACCGCTCGTACCCTCTGTCATGGCGCTATGGCCAGTCCAGTCCGCGGCTGCA	
1261	L S N R S Y P L S W R Y G Q S S P R L Q	
	GGCTGGTGACGCGCCCTCTGTGGGTGGGAGCTGCCGCTCGGAGGGGACGCCCGCC	
1321	A G D A P S V G G S C R S E G T P A W Y	
	CATGCACGGCGAACGGGCCCACTACTCCCACACCATGCCCATGCGCAGCCCCAGCAAGCT	
1381	M H G E R A H Y S H T M P M R S P S K L	
	CAGCCATATCTCCCGCCTGGAGCTGGTCGAATCCCTGGACTCGGATGAGGTGGACCTCAA	
1441	S H I S R L E L V E S L D S D E V D L K	
	GTCCGGCTACATGAGCGACAGTGACCTCATGGGCAAGACCATGACGGAGGATGATGACAT	
1501	S G Y M S D S D L M G K T M T E D D D I	
	CACTACCGGCTGGGATGAAAGCAGCTCCATCAGTAGTGGACTCAGCGATGCCTCAGACAA	-
	+	
,	T T G W D E S S S I S S G L S D A S D N	-
1621	TCTCAGTTCAGAAGAATTCAATGCCAGCTCCTCACTCACT	
	LSSEEFNASSSLNSLPSTPT	-
1681	TGCTTCTCGCAGGAACTCAACAATAGTGCTACGCACAGACTCAGAGAAGCGCTCACTGGC	
	A S R R N S T I V L R T D S E K R S 1 A.	-
	Fig. 16 (cont'd 1)	

								144													
1741	AGA	AAAG	TGG	GCT	GAG	CTG	GT7	TAC	TG	TAA	CAG.	AGG	AGA	AAG	CCC	CTAZ	AAA	AAC'	rgg:	AGTA	1
T/41		s		+ L	s	W	-+- F	s	F.	 S	+ ∃	 E	 к	Δ - <b>+</b>	 D	 V	+-	- <b>-</b>		Y	1800
1001	CGF	ACAG	TGG	TAG	CCT	GAA	GAT	GGP	ACC	CTG	GGA(	CTT	CTA	AGTO	GCC	GAC	GGG <i>I</i>	AGC(	GC(	CTGA	
1001	 D	s	G	+ S	L L		-+- M		 Р	 G	 יר		к	- + Ta7	- <b></b> -	·	- <b></b> -	· ·		+	1860
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1861	GAG	CTG	TGA	TGA	TTC	ATC	CAA	.GGG	TGC	BAG	AAC'	TGA/	AAAA	\GC(	CAT	CAC	3CC1	GGG	3CC2	4CCC	!
1001	s	С	D	D	s	s	-+- K	 G	 G	E	L	 к	к	-+ p	т	s	- <b>-</b> + - T.	. <b></b> .	 u	P	1920
1921		TTC	CCT	GAA	GAA	GGG	CAA	GAC	CCC	ACC	CTG	rggc	CTGT	'AAC	TTC	CCC	CAT	CAC	CTC	CAC	
		s	L	ĸ	ĸ	G	ĸ	т	P	P	v	A	v	т	s	P	-+- I	T	. <del>.</del> .	T	1980
1981	AGC		GAG' 	+ ·	CCT	CAA.	AGT -+-	CGC	AGG	CAA	ACC	CTGA	AGGG	CAA	AGC	TAC	AGA	CAA	\GGG	TAA	2040
	A	Q	s	A	L	K	v	A	G	ĸ	P	E	G	ĸ	Α	т	D	K	G	K	2040
	GCT	ፐርር	ልርታጥ	ገልልና	יממב	דא כיי	TCC	СCT	ררז	አ ሮር	יכיתיכ	3CmC	icma	ייייט א	maa	maa	maa	~~~	~	CCT	
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	GAG	TGA:	rgc:	raac	SAAC	3CC	ccc	CTC	GGG	САТ	ጥርር	ግጉር ር	יררר	רידיר	ר א רי	ጥጥር	ימממ	እጥር	المست	maa	
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2161			+			- <b></b> -	-+-			+				+			- <b>+ -</b>			+	2220
	Y	K	K	Р	Р	Р	Α	Т	G	T	A	T	V	M	Q	Т	G	G	S	A	-
	CAC'	TCT	CAGO	CAAC	ATC	CCAC	JAA(	FTC(	CTC.	AGG	CAT	'CCC	TGT	CAA	GCC	AGT.	AAA	TGG	GCG	CAA	
2221																					
	-	ם	3	K	1	Q	K	S	5	G	1	Р	٧	K	Р	V	N	G	R	K	-
0001	GAC	rago	CTTA	AGAI	GTI	TCC	CAAC	CAG:	rgc.	AGA	GCC	AGG	ATT	CCT	GC.	rcc	TGG.	AGC	CCG	TTC	
2281		s	·+ L	D	v	s	N	s	Α	+ E	 p		F	+ · T.	· ^	 D	-+- G	 7		+	2340
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2341	TAAC	CATO	CAG	TAC	:CGC	AGC	CTC	CCC	CCG	GCC.	AGC	CAA	GTC	AAG'	rrc:	rat	GAG	CGT	GAC	CGG	
2341																				+ G	
2401	CGG																				2460
	G	R	G	G	P	R	P	v	s	s	s	I	D	P	s	L	L	s	T	к	-
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2461	GCAC																				2520
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	CACI	ייירא	acc	ירירייי	CTC	יי א אי	יריאכ	יאכיז	ייאר	דירירים	707	N N N /	7076	7 N N C	3000			~~~	~~~		
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2641	GAA																				2700
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2701	GGC																				2760
	A	T	A	K	s	F	V	K	P	P	s	L	A	N	L	D	K	V	N	S	-
2761	CAA																				2820
	N	S	L	D	L	P	s	s	s	D	Т	T	Н	A	S	K	V	P	D	L	-
2821	GCA'																				2880
	Н	<b>A</b>	Т	S	S	A	S	G	G	P	L	P	s	C .	F	Т	P	s	P	Ą	-
2881				+			-+-			+		<b>-</b>		+	<b>-</b>		-+-			+	
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3001				+	<b>-</b>		-+-			+		- <b></b>		+			-+-			+	3060
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	AAG																				
3121				+			-+-			+				+			-+-				3180
	AGG	GCT	CAG	GTA	CCA	GCT	TCA	GTC	CCA	GGA	GGA	GAC	CAA	.GGA	GAG	GCG	ACA	TTC	CCA	TAC	
3181														+ E							3240
	CAT	TGG'	TGG	GCT	GCC'	TGA	ATC	CGA	TGA	CCA	GTC.	AGA	GCT	GCC'	TTC	TCC	ccc	TGC.	ACT	TCC	
3241																				+ P	3300
	CAT																				
3301																				т	3360
2261	•GCC																				3420
3361																				s	
3421	CGG																				3480
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3481																				CAG	3540
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Fig. 16 (cont'd 3)

25/1																				.GCT	3600
2241								A													3600 -
3601																				TGC	3660
3001								Q													3660
3661								TTI													3720
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3721								GGA													3780
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3961	AAA																CAG	TAT			4020
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4021	GGG																	``			4080
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4081	AGC																				4140
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4141																				CCC +	
	S	S	Т	S	S	S	V	G	т	D	V	Т	E	G	P	A	H	P	A	P	-
4201																				GGA +	4260
	H	Т	R	L	F	Н	A	N	E	E	E	E	P	E	K	K	E	V	S	E	-
4261	GCT 																				4320
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4321								TCA													4380
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	D	L	L	E	A	E	N	D	R	L	K	V	Α	P	G	P	s	S	Œ٠.	·· <del>S</del> ·	-

4441																	-			CCT	4500
4441																			Ğ		4500
4501																				TGG	4560
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4561		CAG 	TAC 	TTG +	TGG	TCC	AAA: -+-			AGT +										CCC	4620
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4621				+			-+-			+				+			-+-		<del></del> -	+	4680
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4681				+			-+-			+				+			-+-				4740
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4801		 I																		+ R	4860 -
4067			TGT	CAA	TAA	CAT	'ATC	AGT	CTC	CCT	CAA	AGG	TCT	GAA	GGA	GAA.	ATG	CGT	CGA	CAG	4020
4861		G	v	N	N	I	s	v	s	L	к	G	L	K	E	к	C	v	D	s	4920
4921																		•		GCT	4980
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4981				+			-+-			+				+			-+-			CAA +	5040
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5041				+			-+-			+				+			-+-			CAG + S	5100
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5101				+			-+-			+				+			-+-				5160 -
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5161																				+ D	5220 -
	CCI	'GAG	TGA	AGC	'AGG	CTC	CAT	CAG	TGA	GTI	GGI	'CAA	TGG	GGC	CC1	CAC	CTG	CAA	GTA	TCA	
5221				•			•							-						+ Н	5280 -
5005																				TGG	
5281																				-G	5340 -

F247																				CTT	
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5401																				CAA	5460
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6121	TTG																				6180
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6181																	•			·	6240
6241	GTC																				6300

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## 85/124

6301	GAAAACATCAAAACACTGCAGCAGTTCCTAAATGATTCTCACAAGCAACCCTGAGAGAGA	6360
6361	CAGTCTTGTGAGGGAGATCTGGGGGGAGGCAGGAAGCTCCTCAGATTTTCTCACAGACCCT	6420
6421	TCCCAATTCCATCACCACTGCCAACAACTCCTCCCCCAGAGATCTGGCTGG	6480
6481	AAAGAAGCATGTGGTTTAAAAAATGTTTAAATCAATCTGTAAAAGGTAAAAATGAAAAAC	6540
6541	AAAAACAAGCAAACAAAAAAAAAAAAAAAAAAAAAAAA	6600
6601	TTGCCAAGGTAGAGAGCTGCCCGCTCCTGCCCTCTGGATGACATAGGGGACATCAACAAG	6660
6661	ACGGCTGCCAACCTGAGAAGTCACCAAAACCACAAAAATAACCTTACAGCCTTCAGGGAAA	6720
6721	GACTACCAGCTCTGTCTTTCTACCCTCTAATTTAACAATGCATAAGAGTCAATAAACCCT	6780
6781	ACTTTTTTAAAAAAAAAAAAAAG	

Fig. 16 (cont'd 7)

T3-cDNA sequence and T3 protein encoded therein (protein isoform 1)

-	CAA																				<b>60</b>
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	GAT																				200
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	P TGA	 Q AAT	AGC  A GCA	CCC + P GTC	GTG  C CAG	Q ACT	-+- P TCC	TCA  H AGG	.CCA  Q TCC	GCC + P	AGC  A CGC	GCC  P	ACA  H GGT	TCA + Q 'ATC	GCA  Q CGC	GTC  S TGC	AAA -+- K AGG	AGC. A A CAG	ACAZ Q CGAG	AGC + A GGC	600 -
	P TGA	 Q AAT	AGC  A GCA	CCC + P GTC +	GTG C C	Q ACT	-+- P TCC	TCA  H AGG	.CCA Q Q	GCC :+ P TAC	AGC A CGC	GCC P GAG	ACA H GGT	TCA + Q 'ATC +	GCA Q Q CGC	GTC  S TGC	AAA -+- K AGG	AGC. A A CAG	ACAZ Q CGAG	AGC + A GGC	600 - 660
601	P TGA E CAA	Q AAT  M	AGC A GCA Q ACG	CCC + P GTC + S	GTG C CAG R R	Q ACT L	P TCC -+- P	TCA H AGG G	CCA Q TCC P	GCC P TAC T T	AGC A CGC A	GCC P GAG R	ACA H GGT V	TCA + Q PATC + S	GCA Q CGC  A	GTC S TGC  A	AAA K AGG -+- G	AGC. A CAG  S	ACA Q CGA E CAA	AGC A A GGC A CTA	600 - 660 -
601	P TGA E CAA	Q AAT  M AAC	AGC A GCA  Q ACG	CCC + P GTC + S CGG	GTG C CAG R R	Q ACT L	TCC -+- P AAC	TCA H AGG G	CCA Q TCC P	GCC P TAC T TAA	AGC A CGC A	GCC P GAG R	ACA H GGT V	TCA + Q ATC + S	GCA Q CGC A CCA	GTC S TGC  A GAG	AAA -+- K AGG -+- G	AGC. A CAG S	ACA Q CGA E CAA	AGC+ A GGC+ A CTA	600 - 660 - 720
601	TGA CAA	AAT M AAC T	AGC A GCA Q ACG R ATC	CCC + P GTC + S CGG + G	GTG CAG R AGG	Q ACT L GTC S	PTCC -+- PCAAC	TCA H AGG G TAC	CCA Q TCC P TGC A	GCC+ P TAC+ T TAA	AGC A CGGC A CAA N	GGCC P GAG R CCCG R	ACA H GGT V ACG	TCA + Q ATC + S CAG + S	GCA Q CGC A CCA	GTC S TGC A GAG S	AAA K AGG -+- G CTT -+- F	AGC. A CAG S TAA TAA	ACAA Q CGAA E CAA N	AGC+ A GGC+ A CTA+ Y	600 - 660 - 720
601	TGA E CAA K TGA	AAT M AAC T	AGC A GCA Q ACG R ATC	CCCC P GTC + S CGG + G CAA	GTG C C CCAG R AGG G	Q ACT L GGTC S	TCC P CAC	TCA H AGG G TAC T	Q TTGC P	GCC+ P TAC+ T TAA+ N	AGC A CGGC A CAA N	P R CCC	ACA H GGGT V ACG	TCA Q ATC + S GCAG + S	GCA Q CGC A CCA Q	GTC S TGC A GAG S CCA	AAAA K AGG -+- G CTT -+- F	AGC. A CAG S TAA I	ACAA Q CGAA E CAA N	AGC+ A GGC+ Y GCC+	600 - 660 - 720 -
601	TGA CAA TGA TGA TTT	Q AAT M AAC T TAA K GGGC	AGC A GCA Q ACG R ATC	CCCC + P GTC + S CGG + G CAA	GTG C CAG R AGG G ACC P	Q ACT	-+- P TTCC -+- P CAAC T TCCC T	TCA  H  AGG G  TAC  T  CTC S	CCA Q TCC P TGC A	GCC+ P TAC+ T TAAA+ N CACC	AGC A CGAA N CCCC P	GCCGR R	ACA H GGT V ACG R CGCC	TCA  PATC  S  CAGG  CAAGG  CAAGA  CAAAAAAAAAAAAA	GCAA Q CGC A CCA Q CAG CAG TGC	GTC S TGC A GAG S CCA H	AAA -+- K AGG -+- G CTT -+- F CGA -+- E	AGC. A CAG S TAA N GAA K TTTC	ACAA Q CGAA E CAAA N AGA	AGC+ A GGC+ Y GCC+ P GGGA	600 - 660 - 720 -

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2701																					
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2761																				-	2820
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4081	GTC																				4740
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4201	CAC.															_					4260
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	700	mmm	an a	az a	aa 2	aam	a 2 a	. aa	**	maa	man.	a a m				~					
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5243	CTC	CAA	CTC	TCT	'AA'	TTC	AGA	ATC	CAT	rgg <i>i</i>	ATAC	STG	AAGC	TGA	GAC	CG1	CA'	GCA	GCI	CCG	
5341	s	N	s		ı	s	-+- E	C	M	D	s	E	A	+ E		v	- <del>- +</del> - M	Q	 L	~-+ ~R	5400 -
	AAA	TGA	GTT	'AAG	AGA	CAA	GGA	GAT	'GAA	GCT	'GAC	AGA	TAT	CCG	CTI	AGA	AGC	TCT	'CAG	TTC	
5401				+			-+-					- <b>-</b> -	- <b>-</b> -	+			-+-			+	5460
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5461				+			-+-			+				+			-+-			.GAA +	5520
	A	H	Q	L	D	Q	L	R	E	A	M	N	R	M	Q	S	E	I	E	K	-
5501														AGG	CAG	TGG				GGC	
5521														+ G	s	G				+ A	5580 -
	TCC	TTC	CCA	AGT	GTC	CAT	CTC	TGC	CTC	:CCC	GAG	GCA	GTC	CAT	GGG	CCT	'CTC	CCA	GCA	CAG	
5581				+			-+-			+				+			-+-			+	5640
			Q																		-
GGCTCGGAAGGAAGGAGGCAGGCATGTTAAGATAGTTGTCAGCTTTCAGGAGGAAATGAA															5700						
5701																					5760 -
	GTG	GAA	GGA	GGA:	TTC	CAG	ACC.	ACA'	TCT	CTT	TCT	TAT	TGG	CTG	CAT'	TGG	AGT	TAG'	TGG	CAA	
5761				+			-+-			+				+			-+-				
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5821	GAC																				5880
	T	K	W	D	V	L	D	G	V	V	R	R	L	F	K	E	Y	I	I	н	-
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6061																				+ I	
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6181	CCG			L																	6240
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	CAC	CTT	TAA	CGT	GGA	CCA'		GTC		CAA	GGA	ATT	'GCG	CCA	GTA	CCT	GTC	CAA	רירית.	ፐርር	
6241		<b>-</b> -		+			-+-			+	- <b>-</b> -			+			-+-			+	6300
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6301																					6360 -
	GTTTACGGGAATGTATTAACCGTGTTACTTGGTCCGATGGAGAAGCTGAGGGTTGGACGT  K C P Y I I G T M N Q A T S S T P N L Q  GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACACGGAGCCTGTGAAGGGTTT  CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA  L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT  L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT  ATACCTCGACCATTTTAGTAACTGACTGACCTAAGGGTTCCAGACCGTAGTGGAGTTGGCGAA																				
6361				+			-+-			+		<b>-</b>		+			-+-			+	6420
																					_
	D Q C N S E N N A V D M P L V I I L D N  CCTACACCACGTGAGCTCTCTGGGCGAGATCTTCAATGGCTGCAACTGCAACTACCA  GGATGTGGTGCACTCGAGAGACCCGCTCTAGAAGTTACCCGACGAGTTGACGTTCATGGT L H H V S S L G E I F N G L L N C K Y H  CAAATGCCCTTACATAATTGGCACAATGAACCAGGCTACCTCTCGACTCCCAACCTGCA  GTTTACGGGAATGTATTAACCGTGTTACTTGGTCCGATGAGAGTTGAGGGTTGGACGT K C P Y I I G T M N Q A T S S T P N L Q  GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACACGGAGCCTGGAAGGGTTT  CGAAGTGGTATTGAAGTCTACCCACGAAACAGCGTTGGTGTGCCCTCCCAAA L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGGGTGCGCAA  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGGGGGG																				
6421																		_			6480
	GTTTACGGGAATGTATTAACCGTGTTACTTGGTCCGATGGAGAAGCTGAGGGTTGGACGT  K C P Y I I G T M N Q A T S S T P N L Q  GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACACGGAGCCTGTGAAGGGTTT  81																				
	K	С	Ъ	Y	1	I	G	Т	М	N	Q	A	Т	S-	S	т	P	N	L	Q	_
6403	GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACACGGAGCCTGTGAAGGGTTT  CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA  L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT  L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCGCTT  101																				
0401	CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  CTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT															6540					
	L	H	H	N	F	R	W	V	L	С	A	N	H	T	E	P	v	ĸ	G	F	-
	CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  CCTTGGCCGATTCCTGAGGAGGAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT  ATACCTCGACCATTTTTAGTAACTGACCTAAGGGTTCCAGACCGTAGTGGAGTTGGCGAA																				
6541	81														6600						
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	K C P Y I I G T M N Q A T S S T P N L Q  GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACAGGAGCCTGTGAAGGGTTT  CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT  ATACCTCGACCATTTTTAGTAACTGACTAAGGGTTCCAGACCGTAGTGGAGTTGGCGAA M E L V K I I D W I P K V W H H L N R F  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CATCGATGTGGACGGCTCGAGAGTGTGGTTCACCGACTTTTCCATTATCCC																				
6601	GGAACCGGCTAAGGACTCCTCCTTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT L G R F L R R K L M E T E I S G R V R N  TATGGAGCTGGTAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT  ATACCTCGACCATTTTTAGTAACTGACCTAAGGGTTCCAGACCGTAGTGGAGTTGGCGAA M E L V K I I D W I P K V W H H L N R F															6660					
	GCTTCACCATAACTTCAGATGGGTGCTTTGTGCCAACCACACGGAGCCTGTGAAGGGTTT  CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA  L H H N F R W V L C A N H T E P V K G F  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  GGAACCGGCTAAGGACTCCTCTCGAGTACCTTTGTCTCTAGTCACCCGCCCACGCGTT  L G R F L R R K L M E T E I S G R V R N -  TATGGAGCTGGTAAAAATCATTGACTGGATTCCCAAGGTCTGGCATCACCTCAACCGCTT  ATACCTCGACCATTTTTAGTAACTGACCTAAGGGTTCCAGACCGTAGTGGAGTTGGCGAA  M E L V K I I D W I P K V W H H L N R F -  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CCTGGAGGCTCACAGTTCCTCGGACGTCACCATCGGCCCCCGGCTCTTCCTGTCATGCCC  CATCGATGTGGACGGCTCGAGAGTGTGGAACTATTCCATTATCCC																				
																					_
6661	CGAAGTGGTATTGAAGTCTACCCACGAAACACGGTTGGTGTGCCTCGGACACTTCCCAAA L H H N F R W V L C A N H T E P V K G F -  CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGGAATCAGTGGGCGGGTGCGCAA  41++														6720						
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	CCTTGGCCGATTCCTGAGGAGGAAGCTCATGGAAACAGAGATCAGTGGGCGGGTGCGCAA  41++++++																				
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6701						CGT															
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6961						AAG															7020
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	GAA	CAT	GCT(	GAT	GAG	GCT	GCA	GGA	GGC.	AGC	CAA	СТА	CTC	CAG	CCC	CCA	GAG	CTA'	TGA	CAG	
7021				+			-+-			+				+			-+-			+	7080
	~N	M	Ъ	M	ĸ	L	Q	E	A	A	N	Y	S	S	Р	Q	s	Y	Q.	<u>s</u>	-
	Ei	a 1	7	100	nt	' a	71														

Fig. 17 (cont'd 7)

5001	CGACTCCAACAGCCATCACGATGACATCTTGGACTCCTCTTTGGAGTCCACTCT	
7081	DSNSNSHHDDILDSSLESTL-	140
7141	GTGACAGGGGCCCGGAGCCCAGCGCCCTCTTCTCCTCACCGCATTCCACCTGCATCC+	200
7201	CCCACATCACCCTGAAGATGACTTCCTGAGCCAGCCCCAGCCACAGCCTTAGAGCTGCG	260
7261	GGAACACCGAGACCCCCGTCCTTCAGCCTCGACCTGGGTGCAGGCATCCCGGGCCAGCT	320
7321	GCCTGCGGACCGCTTCCTTCCACAGCGAGAACTGCACTACCTTCTGTTGTACTTTAATTA	380
7381	TTGTTTTGCCTTGTTGCTGTGACCTCCCTAAGACACTGAAGATACTTCTCGGGAAAGGAT	440
7441	CATCGCCGTTGAAATGAAAAGAGAGAGACAGAGAGAGAAAAAAAA	500
7501	GCTCTGAAACCAAACAGCATCCTGCCATGAGCTTCCCAGAGACAGAAGAGACTGGAGCAA	'560
7561	AGTCGGAAACACAGAGAAGCACGGCTTCCCCTCAGCACAGACCCTCCAGACTGGGTCTCA	620
7621	GAGCCGTGCCACCCCCCCCCACACAGCCGGCCACAGGGAGAACTGGTGCTAACCAGGG	680
7681	TGCTTGCTTTGGTCACGTTCAACGCACTACAGAGCTACGACACAGGGGAACCTTAGGAGC	7740
7741	AAATAAACCGTGCTTTCATGTTTTTTAAAAAAAAAAAAA	

Fig. 17 (cont'd 8)

# T3-cDNA sequence and T3 protein encoded therein (isoform 2)

-	AG	CAG	GGA	GAG	GGG.	AGG	GAG	TGT	GCC	GTC'	TCT	TCT	GCA	AGG	GCA	GTG	CCC	CAG	CCT	CAGC	<b>CO</b>
1	s	R	E	-+- R	G	G	s	v	P	s	L	L	Q	G	Q	C	+ Р	s	L	s	60 -
<i>c</i> 1		CAC	TTC	TGA	TCT	GCA	GTC	CAA	CAG	ACC'	TTT	CTA	GCA	TGC	CAA	AGA	GAA	CCT	GGG	GGTG	120
61	Н	т	s	D	L	Q	s	N	R	P	F	*	н	A	к	E	N	L	G	V	-
121																				CGTG	180
121		G		P	Q	s	s		С				T	Н	s	E	*	P	s	V	-
1 0 1	G H K R L I K D L Q Q D V T D G V L L A - CAGATTATCCAGGTTGTGGCAAATGAAAAGATTGAAGACATCAATGGCTGTCCGAAGAAC														240						
101		R	G	N	С	т	Q	I	Y	T	D	W	A	N	н	Y	r.	A	ĸ	-	-
241																					300
241																					-
301	S R G N C T Q I Y T D W A N H Y L A K S -  GGCCACAAGCGTCTCATCAAGGATCTCCAGCAAGATGTGACAGATGGCGTCCTCCTGGCC  G H K R L I K D L Q Q D V T D G V L L A -  CAGATTATCCAGGTTGTGGCAAATGAAAAGATTGAAGACATCAATGGCTGTCCGAAGAAC  Q I I Q V V A N E K I E D I N G C P K N -																				
				Q	V	V	A	N	E	K	I	E	D	I	N	G	С	P	K	N	-
361	241+ 300 G H K R L I K D L Q Q D V T D G V L L A -  CAGATTATCCAGGTTGTGGCAAATGAAAAGATTGAAGACATCAATGGCTGTCCGAAGAAC 301+ 360																				
	R	s	Q	M	I	E	N	I	D	A	С	L	N	F	L	A	A	\ <b>K</b>	G	I	-
421		CAT	CCA	GGG -+-	GCT	GTC	TGC	AGA	AGA	GAT	CAG +	GAA	TGG	AAA -+-	CCT	CAA	.GGC	CAT	TCT	'AGGC	480
	N	I	Q	G	L	S	A	E	E	I	R	И	G	N	L	K	A	I	L	G	-
481							:CCG								-					CCTC	540
	L	F	F	s	L	s	R	Y	K	Q	Q	Q	Q	Q	P	Q	K	Q	Н	L	-
541	TC	CTC	ACC	TCT -+-	GCC	GCC	CGC	CGI	ATC	CCA	GGT +	'GGC	CGG	GGC	.ccc	CTC	CCA	GTG	CCA	GGCT	600
<b>-</b>	S	s	P	L	P	P	Α	V	s	Q	V	Ą	G	A	P	s	Q	С	Q	A	-
601	GG 	CAC	:CCC	TCA-																GCCA	
	G	T	₽	Q	Q	Q	V	P	V	T	P	Q	A	P	C	Q	P	H	Q	P	-

Fig. 18

09914549

#### 96/124 T3 murine cDNA

1	ATGA																				60
1			s																		
61	ATGG																				120
01			s																		
121	AATG																				180
			s																		
121	AATG																				180
		_	s							•											-
181	CTGC		+	- <b>-</b> -		- <b></b>	+			-+-			+				+			-+	
			T		-																-
241	TGGG		+				+			-+-			+	. – – –			+			-+	
		٠.	M																		-
301	AACT	<b>_</b> _	+				+			-+-			4		- <b>-</b> -		+			-+	
			E																		-
361	CTGC		+				+			-+-							+			-+	420
			N																		-
421	GGCT		+		. <b>-</b>	. <b>-</b>	- +	. <b></b> -		-+-	<b>-</b> -			<b></b>			- +			+	480
			T					A	Т	L	L	R	Q	С	L	Q	Y	Q	*	R	-
481	GCC					- <b>-</b> -	-+-	501	L											•	
		_	_	-	**	~															

Fig. 19

AACCGCTCGTACCCTCTGTCA ACCGCTCGTACCCTCTGTCAT

CCGCTCGTACCCTCTGTCATG R S Y P L S

CGCTCGTACCCTCTGTCATGG R S Y P L S W

GCTCGTACCCTCTGTCATGGC SYPLSW

CTCGTACCCTCTGTCATGGCG SYPLSW

TCGTACCCTCTGTCATGGCGC S Y P L S W R

CGTACCCTCTGTCATGGCGCT S Y P L S W R

GTACCCTCTGTCATGGCGCTA YPLSWR

TACCCTCTGTCATGGCGCTAT YPLSWRY

ACCCTCTGTCATGGCGCTATG YPLSWRY

97/124 CCTCCTCCACCTACTCCTCAC ASSTYSS

> CTCCTCCACCTACTCCTCACA SSTYSS

TCCTCCACCTACTCCTCACAA S S T Y S S Q

CCTCCACCTACTCCTCACAAA S S T Y S S Q

CTCCACCTACTCCTCACAAAT STYSSQ

TCCACCTACTCCTCACAAATC STYSSQI

CCACCTACTCCTCACAAATCC S T Y S S Q I

CACCTACTCCTCACAAATCCG T Y S S Q I

ACCTACTCCTCACAAATCCGG TYSSOIR

CCTACTCCTCACAAATCCGGA TYSSQIR

CTACTCCTCACAAATCCGGAA Y S S Q I R

TACTCCTCACAAATCCGGAAG Y S S Q I R K

ACTCCTCACAAATCCGGAAGC Y S S Q I R K

CTCCTCACAAATCCGGAAGCT s s Q I R K

TCCTCACAAATCCGGAAGCTT S S Q I R K L

CCTCACAAATCCGGAAGCTTC S S Q I R K L

CTCACAAATCCGGAAGCTTCG SQIRKL

TCACAAATCCGGAAGCTTCGT S Q I R K L R

CACAAATCCGGAAGCTTCGTA SQIRKLR

ACAAATCCGGAAGCTTCGTAG QIRKLR

09914549

AGAAGAAAAAAAGAGTTGGC K K K K S W

GAAGAAAAAAAGAGTTGGCT K K K K S W

AAGAAAAAAAGAGTTGGCTT K K K K S W L

AGAAAAAAAGAGTTGGCTTC K K K K S W L

GAAAAAAAGAGTTGGCTTCG K K K S W L

AAAAAAAGAGTTGGCTTCGA K K K S W L R

AAAAAAGAGTTGGCTTCGAA K K K S W L R

AAAAAAGAGTTGGCTTCGAAG K K S W L R

AAAAAGAGTTGGCTTCGAAGT KKSWLRS

AAAAGAGTTGGCTTCGAAGTT K K S W L R S

AAAGAGTTGGCTTCGAAGTTC KSWLRS

AAGAGTTGGCTTCGAAGTTCC K S W L R S S

AGAGTTGGCTTCGAAGTTCCT K S W L R S S

GAGTTGGCTTCGAAGTTCCTT SWLRSS

AGTTGGCTTCGAAGTTCCTTC SWLRSSF

GTTGGCTTCGAAGTTCCTTCA S W L R S S F

TTGGCTTCGAAGTTCCTTCAA WLRSSF

TGGCTTCGAAGTTCCTTCAAC WLRSSFN

GGCTTCGAAGTTCCTTCAACA WLRSSFN

GCTTCGAAGTTCCTTCAACAA L R S S F N

AGTCCTCCACCTCGTCCTCCG GTGGACCTGCTGGAAGCAGAG V D L L E A E K S S T S S S GTCCTCCACCTCGTCCTCCGT TGGACCTGCTGGAAGCAGAGA SSTSSS VDLLEAE TCCTCCACCTCGTCCTCCGTG GGACCTGCTGGAAGCAGAGAA S S T S S S V DLLEAE

> GACCTGCTGGAAGCAGAGAAT DLLEAEN ACCTGCTGGAAGCAGAATG DLLEAEN CCTGCTGGAAGCAGAATGA

> > CTGCTGGAAGCAGAGAATGAC LLEAEND

LLEAEN

TGCTGGAAGCAGAATGACC LLEAEND

GCTGGAAGCAGAATGACCG LEAEND

CTGGAAGCAGAGAATGACCGA LEAENDR

TGGAAGCAGAGAATGACCGAC LEAENDR

GGAAGCAGAGAATGACCGACT EAENDR

GAAGCAGAGAATGACCGACTG EAENDRL

PNHGFHL CAACCATGGCTTTCACTTGAG NHGFHL AACCATGGCTTTCACTTGAGC N H G F H L S ACCATGGCTTTCACTTGAGCT NHGFHLS CCATGGCTTTCACTTGAGCTT HGFHLS CATGGCTTTCACTTGAGCTTC H G F H L S F ATGGCTTTCACTTGAGCTTCA

H G F H L S F

TGGCTTTCACTTGAGCTTCAG GFHLSF

GGCTTTCACTTGAGCTTCAGG G F H L S F R

GCTTTCACTTGAGCTTCAGGA G F H L S F R

CTTTCACTTGAGCTTCAGGAT FHLSFR

TTTCACTTGAGCTTCAGGATG FHLSFRM

TTCACTTGAGCTTCAGGATGT F H L S F R M

TCACTTGAGCTTCAGGATGTT HLSFRM

CCTCCACCTCGTCCTCCGTGG

CTCCACCTCGTCCTCCGTGGG

TCCACCTCGTCCTCCGTGGGC

S T S S S V G

CCACCTCGTCCTCCGTGGGCA

CACCTCGTCCTCCGTGGGCAC

T S S S V G

ACCTCGTCCTCCGTGGGCACT

 ${\tt T} \quad {\tt S} \quad {\tt S} \quad {\tt S} \quad {\tt V} \quad {\tt G} \quad {\tt G}$ 

CCTCGTCCTCCGTGGGCACTG

CTCGTCCTCCGTGGGCACTGA

TCGTCCTCCGTGGGCACTGAT

S S V G G T

CGTCCTCCGTGGGCACTGATG

S S V G G T

SSSVGG

T S S S V G G

TSSSVG

STSSSV

SSTSSSV

TAAAAGGTAAAAATGAAAAAC AAAAGGTAAAAATGAAAAACA AAAGGTAAAAATGAAAAACAA AAGGTAAAAATGAAAAACAAA. AGGTAAAAATGAAAAACAAAA GGTAAAAATGAAAAACAAAAA GTAAAAATGAAAAACAAAAAC TAAAAATGAAAAACAAAAACA AAAAATGAAAAACAAAAACAA AAAATGAAAAACAAAAACAAG AAATGAAAAACAAAACAAGC AATGAAAAACAAAAACAAGCA ATGAAAAACAAAAACAAGCAA TGAAAAACAAAAAAAAGCAAA GAAAAACAAAACAAGCAAAC AAAAACAAAACAAGCAAACA AAAACAAAAACAAGCAAACAA AAACAAAAACAAGCAAACAAA AACAAAACAAGCAAACAAAC ACAAAAACAAGCAAACAAACA

99/124

T2

CTCTAATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA CCTCTAATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TCTAATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TAATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA AATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA ATTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TTTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TTAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TAACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA AACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA ACAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA CAATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA AATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA ATGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAAA TGCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA GCATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA CATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA ATAAGAGTCAATAAACCCTACTTTTTTAAAAAAA TAAGAGTCAATAAACCCTACTTTTTTAAAAAAA

Fig. 20 (cont'd 2)

<u>-</u>

CGGCCACAAGCGTCTCATCAG G H K R L I GGCCACAAGCGTCTCATCAGG

GCCACAAGCGTCTCATCAGGG GHKRLIR

G H K R L I R

CCACAAGCGTCTCATCAGGGA HKRLIR

CACAAGCGTCTCATCAGGGAT HKRLIRD

ACAAGCGTCTCATCAGGGATC HKRLIRD

CAAGCGTCTCATCAGGGATCT K R L I R D

AAGCGTCTCATCAGGGATCTC KRLIRDL

AGCGTCTCATCAGGGATCTCC KRLIRDL

GCGTCTCATCAGGGATCTCCA RLIRDL

CGTCTCATCAGGGATCTCCAG RLIRDLO

GTCTCATCAGGGATCTCCAGC RLIRDLQ

TCTCATCAGGGATCTCCAGCA LIRDLQ

CTCATCAGGGATCTCCAGCAA LIRDLQQ

TCATCAGGGATCTCCAGCAAG LIRDLQQ

CATCAGGGATCTCCAGCAAGA IRDLQQ

ATCAGGGATCTCCAGCAAGAT I R D L Q Q D

TCAGGGATCTCCAGCAAGATG IRDLQQD

CAGGGATCTCCAGCAAGATGT RDLQQD

AGGGATCTCCAGCAAGATGTG R D L Q Q D V

GGGATCTCCAGCAAGATGTGA RDLQQDV

CTGAAATGCAGTCCAGACTTC EMQSRL

TGAAATGCAGTCCAGACTTCC EMQSRL

GAAATGCAGTCCAGACTTCCA EMQSRLP

AAATGCAGTCCAGACTTCCAG EMQSRLP

AATGCAGTCCAGACTTCCAGG M O S R L P

ATGCAGTCCAGACTTCCAGGT MQSRLPG

TGCAGTCCAGACTTCCAGGTC MOSRLPG

GCAGTCCAGACTTCCAGGTCC QSRLPG

CAGTCCAGACTTCCAGGTCCT QSRLPGP

AGTCCAGACTTCCAGGTCCTA QSRLPGP

GTCCAGACTTCCAGGTCCTAC SRLPGP

TCCAGACTTCCAGGTCCTACC SRLPGPT

CCAGACTTCCAGGTCCTACCG SRLPGPT

CAGACTTCCAGGTCCTACCGC RLPGPT

AGACTTCCAGGTCCTACCGCG RLPGPTA

GACTTCCAGGTCCTACCGCGA RLPGPTA

ACTTCCAGGTCCTACCGCGAG LPGPTA

CTTCCAGGTCCTACCGCGAGG LPGPTAR

TTCCAGGTCCTACCGCGAGGG LPGPTAR

TCCAGGTCCTACCGCGAGGGT PGPTAR

CCAGGTCCTACCGCGAGGGTA PGPTARV 

ACTGGGCCAATCATTACCTAG WANHYL CTGGGCCAATCATTACCTAGC WANHYL TGGGCCAATCATTACCTAGCC WANHYLA GGGCCAATCATTACCTAGCCA WANHYLA GGCCAATCATTACCTAGCCAA ANHYLA GCCAATCATTACCTAGCCAAA ANHYLAK CCAATCATTACCTAGCCAAAT ANHYLAK CAATCATTACCTAGCCAAATC NHYLAK AATCATTACCTAGCCAAATCC NHYLAKS ATCATTACCTAGCCAAATCCG NHYLAKS TCATTACCTAGCCAAATCCGG HYLAKS CATTACCTAGCCAAATCCGGC HYLAKSG ATTACCTAGCCAAATCCGGCC H Y L A K S G TTACCTAGCCAAATCCGGCCA Y L A K S G TACCTAGCCAAATCCGGCCAC YLAKSGH ACCTAGCCAAATCCGGCCACA CCTAGCCAAATCCGGCCACAA LAKSGH CTAGCCAAATCCGGCCACAAG LAKSGHK TAGCCAAATCCGGCCACAAGC

YLAKSGH

LAKSGHK

AGCCAAATCCGGCCACAAGCG AKSGHK.

GCCAAATCCGGCCACAAGCGT AKSGHKR

Fig. 20 (cont'd 3)

CGGGGCAGTAGTGTCTGCCAC R G S S V C H

GGGGCAGTAGTGTCTGCCACG R G S S V C H

GGGCAGTAGTGTCTGCCACGT G S S V C H

GGCAGTAGTGTCTGCCACGTG G S S V C H V

GCAGTAGTGTCTGCCACGTGG g s s v c h v

CAGTAGTGTCTGCCACGTGGA S S V C H V

AGTAGTGTCTGCCACGTGGAC S S V C H V D

GTAGTGTCTGCCACGTGGACG SSVCHVD

.AGTGTCTGCCACGTGGACGT S V C H V D

AGTGTCTGCCACGTGGACGTC S V C H V D V

GTGTCTGCCACGTGGACGTCT SVCHVDV

TGTCTGCCACGTGGACGTCTC V C H V D V

GTCTGCCACGTGGACGTCTCA V C H V D V S

TCTGCCACGTGGACGTCTCAG V C H V D V S

CTGCCACGTGGACGTCTCAGA . C H V D V S

TGCCACGTGGACGTCTCAGAC C H V D V S D

GCCACGTGGACGTCTCAGACA C H V D V S D

CCACGTGGACGTCTCAGACAA HVDVSD

CACGTGGACGTCTCAGACAAG H V D V S D K

ACGTGGACGTCTCAGACAAGG HVDVSDK

CGTGGACGTCTCAGACAAGGC v d v s d k

101/124 тз TCACCATGCCAAGGACGAAGG

TMPRTK

CACCATGCCAAGGACGAAGGC TMPRTK

ACCATGCCAAGGACGAAGGCT TMPRTKA

CCATGCCAAGGACGAAGGCTT TMPRTKA

CATGCCAAGGACGAAGGCTTC MPRTKA

ATGCCAAGGACGAAGGCTTCA MPRTKAS

TGCCAAGGACGAAGGCTTCAG M P R T K A S

GCCAAGGACGAAGGCTTCAGC PRTKAS

CCAAGGACGAAGGCTTCAGCC PRTKASA

CAAGGACGAAGGCTTCAGCCC P R T K A S A

AAGGACGAAGGCTTCAGCCCC RTKASA

AGGACGAAGGCTTCAGCCCCG R T K A S A P

GGACGAAGGCTTCAGCCCCGG RTKASAP

GACGAAGGCTTCAGCCCCGGC TKASAP

ACGAAGGCTTCAGCCCCGGCA T K A S A P A

CGAAGGCTTCAGCCCCGGCAG TKASAPA

GAAGGCTTCAGCCCCGGCAGG K A S A P A

AAGGCTTCAGCCCCGGCAGGC KASAPAG

AGGCTTCAGCCCCGGCAGGCG K A S A P A G

GGCTTCAGCCCCGGCAGGCGC ASAPAG

GCTTCAGCCCCGGCAGGCGCA A S A P A G A

09914549

AGAAGCAGAGTGGTTCCGCCA KQSGSA

GAAGCAGAGTGGTTCCGCCAC K Q S G S A

AAGCAGAGTGGTTCCGCCACC KOSGSAT

AGCAGAGTGGTTCCGCCACCG KQSGSAT

GCAGAGTGGTTCCGCCACCGG Q S G S A T

CAGAGTGGTTCCGCCACCGGC Q S G S A T G

AGAGTGGTTCCGCCACCGGCC OSGSATG

GAGTGGTTCCGCCACCGGCCT SGSATG

AGTGGTTCCGCCACCGGCCTG SGSATGL

GTGGTTCCGCCACCGGCCTGG SGSATGL

TGGTTCCGCCACCGGCCTGGC GSATGL

GGTTCCGCCACCGGCCTGGCC G S A T G L A

GTTCCGCCACCGGCCTGGCCA G S A T G L A

TTCCGCCACCGGCCTGGCCAT SATGLA

TTCCGCCACCGGCCTGGCCAT SATGLA

TCCGCCACCGGCCTGGCCATG S A T G L A M

CCGCCACCGGCCTGGCCATGA SATGLAM

CGCCACCGGCCTGGCCATGAT ATGLAM

GCCACCGGCCTGGCCATGATC ATGLAMI

CCACCGGCCTGGCCATGATCA T G T A M I

CACCGGCCTGGCCATGATCAC TGLAMI

ACCGGCCTGGCCATGATCACA TGLAMIT

ACAAGGAGAAAGGCATCTC

D K E K G I

GACAAGGAGAAAGGCATCTCA

DKEKGIS

ACAAGGAGAAAGGCATCTCAT

CAAGGAGAAAGGCATCTCATC

KEKGIS

D K E K G I -S

H G S S L S TCATGGATCCTCACTCTCCTT H G S S L S CATGGATCCTCACTCTCCTTG H G S S L S L ATGGATCCTCACTCTCCTTGG H G S S L S L TGGATCCTCACTCTCCTTGGT G S S L S L GGATCCTCACTCTCCTTGGTT G S S L S L V GATCCTCACTCTCCTTGGTTT G S S L S L V ATCCTCACTCTCCTTGGTTTC SSLSLV TCCTCACTCTCCTTGGTTTCC SSLSLVS CCTCACTCTCCTTGGTTTCCA S S L S L V S CTCACTCTCCTTGGTTTCCAG S L S L V S TCACTCTCCTTGGTTTCCAGC S L S L V S S CACTCTCCTTGGTTTCCAGCA S L S L V S S ACTCTCCTTGGTTTCCAGCAC LSLVSS CTCTCCTTGGTTTCCAGCACA L S L V S S T TCTCCTTGGTTTCCAGCACAT LSLVSST CTCCTTGGTTTCCAGCACATC SLVSST TCCTTGGTTTCCAGCACATCG S L V S S T S CCTTGGTTTCCAGCACATCGT S L V S S T S CTTGGTTTCCAGCACATCGTC LVSSTS TTGGTTTCCAGCACATCGTCA

LVSSTSS

т3

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TTCATGGATCCTCACTCTCCT

Fig. 20 (cont'd 5)

09914549 TCCTTGGTTTCCAGCACATC SLVSST TCCTTGGTTTCCAGCACATCG S L V S S T S CCTTGGTTTCCAGCACATCGT SLVSSTS CTTGGTTTCCAGCACATCGTC LVSSTS TTGGTTTCCAGCACATCGTCA LVSSTSS TGGTTTCCAGCACATCGTCAG LVSSTSS GGTTTCCAGCACATCGTCAGT V S S T S S GTTTCCAGCACATCGTCAGTT V S S T S S V TTTCCAGCACATCGTCAGTTT V S S T S S V TTCCAGCACATCGTCAGTTTA S S T S S V TCCAGCACATCGTCAGTTTAT S S T S S V Y CCAGCACATCGTCAGTTTATT SSTSSVY CAGCACATCGTCAGTTTATTC S T S S V Y AGCACATCGTCAGTTTATTCT S T S S V Y S GCACATCGTCAGTTTATTCTA STSSVYS CACATCGTCAGTTTATTCTAC TSSVYS ACATCGTCAGTTTATTCTACA T S S V Y S T CATCGTCAGTTTATTCTACAC TSSVYST ATCGTCAGTTTATTCTACACC SSVYST TCGTCAGTTTATTCTACACCA

T3

GGAAGAACTGGGTCAATGAGTTACGCAGCTCC

K N W V N E L R S S

\_\_\_\_ i=.

S S V-Y S T P

CGTCAGTTTATTCTACACCAG

S S V Y S T P

AAGAAGAAGAGGAAGAACTGGGTCAATGAGTTACGCAGCTCCTTCAAG K K K R K N W V N E L R S S F K

т3

TCTCTAATTTCAGAATGCATGGATA

т3

AGGAGATGAAGCTGACAGATATCCGCTTAGAAGCTCT

тз

GATTCCAGACCACACGTCTTTCTTATCG

Fig. 20 (cont'd 6)

Note: The N-terminus of protein T2 was omitted in the alignment, since it has no significant homology to the T protein and the T3 protein.

T T3 T2	MDLSSEMNRHGKNPVSHKLEDQKKIYTDWANHYLAKSGHKRLIKDLQ NQPERLNSQVLQGLQEPAGEGLPLRKSGSVENGFDTQIYTDWANHYLAKSGHKRLIRDLQ  * * * * .* .* .*******************	60
T T3 T2	QDIADGVLLAEIIQIIANEKVEDINGCPRSQSQMIENVDVCLSFLAARGVNVQGLSAEEI QDVTDGVLLAQIIQVVANEKIEDINGCPKNRSQMIENIDACLNFLAAKGINIQGLSAEEI	120
T T3 T2	RNGNLKAILGLFFSLSRYKQQQ-HHQQQYYQSLVELQQRVT RNGNLKAILGLFFSLSRYKQQQQQPQKQHLSSPLPPAVSQVAGAPSQCQAGTPQQQVPVT	180
T T3 T2	HASPPSEASQAKTQQDMQSRLPGP-SRVPAAGSSSKVQGASNLNRRSQSFNSI PQAPCQPHQPAPHQQSKAQAEMQSRLPGPTARVSAAGSEAKTRGGSTTANNRRSQSFNNY	240
12	.* *. *.*.****** .** *** .* .* .* .* .*	
T T3 T2	DKNKPP	300
T T3 T2	AATKPWRSKSLSVKHSATVSMLSVKPPGPEAPRPTPEAMKPAPNNQKSMLEKLKLFNSKG	360
T T3 T2	GSKAGEGPGSRDTSCERLETLPSFEESEELEAASRMLTTVGPASSSPKIALKGIAQRTFS	420
T T3 T2	YANGNEK RALTNKKSSLKGNEKEKEKQQREKDKEKSKDLAKRASVTERLDLKEEPKEDPSGAAVPEM** * ****	480
Т Т3 Т2	PKKSSKIASFIPKGGKLNSAKKEPMAPSHSGIPKPGMKSMPGKSPSAPAPSKEGERSRSG	540
T T3 T2	KLSSGLPQQKPQLDGRHSSSSSSLASSEGKGPGGTTLNHSISSQTVSGSVGTTQTTGSNT	600

T3 T2	VSVQLPQPQQQYNHPNTA APFLYRSQTDTEGNVTAESSSTGVSVEPS.FTKTGQPALE	000
T T3 T2	GEDPETRRMRTVKNIADLRQNLEETMSSLRGTQISHSTLETTFDSTVTTEVNGRTIP ELTGEDPEARRLRTVKNIADLRQNLEETMSSLRGTQVTHSTLETTFDTNVTTEMSGRSILDPESQRKRTVQNVLDLRQNLEETMSSLRGSQVTHSSLEMTCYDSDDANPRSVS ***** ***.*. **************** * *	720
T T3 T2	NLTSRPTPMTWRLGQACPRLQAGDAPSLGAGYP-RSGTSRFIHTDPSRFMYTTPLRRAAV SLTGRPTPLSWRLGQSSPRLQAGDAPSMGNGYPPRANASRFINTESGRYVYSAPLRRQLA SLSNRSYPLSWRYGQSSPRLQAGDAPSVGGSCRSEGTPAWYMHGERAHYSHTMPMRSP *. * *** ************	780
T T3 T2	SRLGNMSQIDMSEKA-SSDLDMS-SEVDVGGYMSDGDILGKSLRTDDINSGYMTDGGLNL SRGSSVCHVDVSDKA-GDEMDLEGISMDAPGYMSDGDVLSKNIRTDDITSGYMTDGGLGL SKLSHISRLELVESLDSDEVDLKSGYMSDSDLMGKTMTEDDDITTG ** ***** * * . ** . * *	840
T T3 T2	YTRSLNRIPD-TATSRDIIQRGVHDVTVDADSWDDSSSVSSGLSDTLDNISTDDLNTTSS YTRRLNRLPDGMAVVRETLQRNTSLGLGDADSWDDSSSVSSGISDTIDNLSTDDINTSSS	900
T T3 T2	VSSYSNITVPSRKNTQLRTDSEKRSTTDETWDSPEELKKPEEDFDSHGDAG- ISSYANTPASSRKNLDVQTDAEKHSQVERNSLWSGDDVKKSDGGSDSGIKMEPG- LNSLPSTPTASRRNSTIVLRTDSEKRSLAESGLSWFSESEEKAPKKLEYDSGSLKMEPGT . * **.***.**. * *	960
T T3 T2	GKWKTVSSGLPEDPEK-AGQKASLSVSQTGSWRRGMSAQGGAPSRQKAGTSALKTP-SKWRRNPSDVSDESDKSTSGKKNPVISQTGSWRRGMTAQVGITMPRTKASAPAGALKTPGSKWRRERPESCDDSSKGGELKKPISLGHPGSLKKGKTPPVAVTSPITHTAQSALKVAG**. * * * ** ***	1020
T T3 T2	-GKTDDAKASEKGKAPLKGSSLQRSPSDAGKSSGDEGKKPPSGIGRSTATSSFGFKKP TGKTDDAKVSEKGRLSPKASQVKRSPSDAGRSSGDESKKPLPSSSRTPTANANSFGFKKQ KPEGKATDKGKLAVKNTGLQRSSSDAGRDRLSDAKKPPSGIARPSTSGSFGYKKP . * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *	1080
T T3 T2	SG-VGSSAMITSSGATITSGSATLGKIPKSAAIGGKSNAGRKTSLDGSQNQDDVVLHVSS SGSATGLAMITASGVTVTSRSATLGKIPKSSALVSRS-AGRKSSMDGAQNQDDGYLALSS PP-ATGTATVMQTGGSATLSKIQKSSGIPVKPVNGRKTSLDVSNSAEPGFLAPGA  * * *** ** ** ***	
T T3 T2	KTTLQYRSLPRPSKSSTSGIPGR-GGHRSSTSSID-SNVSSKSAGATTSKLREPTKIGSG RTNLQYRSLPRPSKSNSRNGAGNRSSTSSID-SNISSKSAGLPVPKLREPSKTALG RSNIQYRSLPRPAKSSSMSVTGGRGGPRPVSSSIDPSLLSTKQGGLTPSRLKEPTKVASG******** * * * * * * * * * * * * *	1200
T T3 T2	RSSPVTVNQTDKEKEKVAVSDSESVSLSG-SPKSSPTSASACG-AQGLRQPGSKYPDIAS SSLPGLVNQTDKEKGISSDNESVASCN-SVKVNPAAQPVSSPAQTSLQPGAKYPDVAS RTTPAPVNQTDREKEKAKAKAVALDSDNISLKSIGSPESTPKNQASHPTATKLAELP . * ****.**	1260
T T3 T2	PTFRRLFGAKAGGKSASAPNTEGVKSSSVMPSPSTTLARQGSLESPSSGTGSMGSAGGLS PTLRRLFGGKP-TKQVPIATAENMKNSVVISNPHATMTQQGNLDSPS-GSGVLS PTPLRAT-AKSFVKPPSLANLDKVN-SNSLDLPSSSDTTHASKVPDLHATSSAS ** * * * * * * * * * * * * * * *	

T T3 T2	GSSSPLFNKPSDLTTDV. LSHSLASSPASVHSFTSGGLVWAANMSSSLAGSKDTPSYQS GSSSPLYSKNVDLNQSPLASSPSSAHSAPSNSLTWGTNASSSSAVSKDGLGFQS GGPLPSCFTPSPAPILNINSASFSQGLELMSGFSVPKETRMYPK	1380
	**	
T T3 T2	MTSLHTSSESIDLPLSHHGSLSGLTTGTHEVQSLLMRTGSVRSTLSESVSSLHTSCESIDISLSSGGVPSHNSSTGLIASSKDDSLTPFVRTNSVKTTLSESPLLSGLHRSMESLQMPMSLPSAFPSSTPVPTPPAPPAAPTEEETEELTWSGSPRAGQLDS** * * * *	1440
T T3 T2	SSPAASPKFCRSTLPRKQDSDPHLDRNTLPKKGLRYTPSSRQANQEEGKEWLRSHSTGGL SSPAASPKFCRSTLPRKQDSDPHLDRNTLPKKGLRYTPTSQLRTQEDAKEWLRSHSAGGL	1500
T T3 T2	QDTGNQSPLVSPSAMSSSAAGKYHFSNLVSPTNLSQFNLPGPSMMRSNSIPAQDSSFDLY QDTAANSPFSSGSSVTSPSGTRFNFSQLASPTTVTQMSLSNPTMLRTHSLSNADGQYDPY PESDDQSELPSPPALPMSLSAKGQLTNIVSPTAATTPRITRSNSIPTHEAAFELY * **	1560
T T3 T2	DDSQLCGSATSLEERPRAISHSGSFRDSMEEVHGSSLSLVSSTSSLYSTAEEKAHSEQIH TDSRFRNSSMSLDEKSRTMSRSGSFRDGFEEVHGSSLSLVSSTSSVYSTPEEKCQSE-IR SGSQMG-STLSLAERPKGMIRSGSFRDPTDDVHGSVLSLASSASSTYSSAEERMQSEQIR *. *. ** * ***** *** ** ** * ** * * *	1620
T T3 T2	KLRRELVASQEKVATLTSQLSANAHLVAAFEKSLGNMTGRLQSLTMTAEQKESELIELRE KLRRELDASQEKVSALTTQLTANAHLVAAFEQSLGNMTIRLQSLTMTAEQKDSELNELRK KLRRELESSQEKVATLTSQLSANANLVAAFEQSLVNMTSRLRHLAETAEEKDTELLDLRE ***** . *******.**.**.** *** ** ** **	1680
T T3 T2	TIEMLKAQNSAAQAAIQGALNGPDHPPKDLRIRRQHSSESVSSINSATSHSS TIELLKKQNAAAQAAINGVINTPELNCKGNGTAQSADLRIRRQHSSDSVSSINSATSHSS TIDFLKKKNSEAQAVIQGALNASETTPKELRIKRQNSSDSISSLNSITSHSS **. ** .*. *** *.* .* . *	
T T3 T2	IGSGNDADSKKKKKKNWLRSSFKQAFGKKKSTKPPSSHSDIEELTDSSLPASPKL VGSNIESDSKKKKRKNWVNELRSSFKQAFGKKKSPKSASSHSDIEEMTDSSLPSSPKL IGSSKDADAKKKKKKSWLRSSFNKAFSIKKGPKSASSYSDIEEIATPDSSAPSSPKL .***.*** * . **** .** * * * * *****. *** * .**	i I
T T3 T2	PHNAGDCGSASMKPSQSASAICECTEAEAEIILQLKSELRE PHNGSTGSTPLLRNSHSNSLISECMDSEAETVMQLRNELRD QHGSTETASPSIKSSTSSSVGTDVTEGPAHPAPHTRLFHANEEEEPEKKEVSELRSELWE * * * * * * * * * * * * * * * * * * *	) :
T T3 T2	KELKLTDIRLEALSSAHHLDQIREAMNRMQNEIEILKAENDRLKAETGNTAKPTRPPSES KEMKLTDIRLEALSSAHQLDQLREAMNRMQSEIEKLKAENDRLKSES-QGSGCSRAPSQV KEMKLTDIRLEALNSAHQLDQLRETMHNMQLEVDLLEAENDRLKVAPGPSSGSTPGQV **.******* ***.** **.**. ** * * ******	7
T T3 T2		1

Т	AKDQKSQAYLIGSIGVS KWDVLDGVIRRLFKEYVFRIDTSTSLGI CIASYCIGD	2040
Т3	KEDSRPHLFLIGCIGVS KWDVLDGVVRRLFKEYIIHVDPVSQLGL DSVLGYSIGE	
Т2	KGDLKQQEFFLGCSKVSGKVDWKMLDEAVFQVFKDYISKMDPASTLGLSTESIHGYSISH	
	* * . *** * . * * * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . * . *	
	· Para	
Т	LIRSHNLEVPELLPCGYLVGDNNIITVNLKGVEENSLDSFVFDTLIPKPITQRYFNLLME	2100
Т3	IKRSNTSETPELLPCGYLVGENTTISVTVKGLAENSLDSLVFESLIPKPILORYVSLLIE	
T2	VKRVLDAEPPEMPPCRRGVNNISVSLKGLKEKCVDSLVFETLIPKPMMQHYISLLLK	
	. * * **. ** *. *.* *. * * * * * * * * . * * *	
т	HHRIILSGPSGTGKTYLANKLAEYVITKSGRKKTEDAIATFNVDHKSSKELQQYLANLAE	2160
Т3	HRRIILSGPSGTGKTYLANRLSEYIVLREGRELTDGVIATFNVDHKSSKELRQYLSNLAD	
T2	HRRLVLSGPSGTGKTYLTNRLAEYLVERSGREVTEGIVSTFNMHQQSCKDLQLYLSNLAN	
	*.********************************	
	-	
т	QCSADNNGVELPVVIILDNLHHVGSLSDIFNGFLNCKYNKCPYIIGTMNQGVSSSPNLEL	2220
Т3	QCNSENNAVDMPLVIILDNLHHVSSLGEIFNGLLNCKYHKCPYIIGTMNQATSSTPNLOL	
Т2	QIDRETGIGDVPLVILLDDLSEAGSISELVNGALTCKYHKCPYIIGTTNQPVKMTPNHGF	
	**.** * * ** *.****** ** .**	
Т	HHNFRWVLCANHTEPVKGFLGRYLRRKLIEIEIERNIRNNDLVKIIDWIPKTWHHLNSFL	2280
Т3	HHNFRWVLCANHTEPVKGFLGRFLRRKLMETEISGRVRNMELVKIIDWIPKVWHHLNRFL	
Т2	HLSFRMLTFSNNVEPANGFLVRYLRRKLVESDSDINANKEELLRVLDWVPKLWYHLHTFL	
	* ***. ** *** *.***.*	
Т	ETHSSSDVTIGPRLFLPCPMDVEGSRVWFMDLWNYSLVPYILEAVREGLQMYGKRTPWED	2340
Т3	EAHSSSDVTIGPRLFLSCPIDVDGSRVWFTDLWNYSIIPYLLEAVREGLQLYGRRAPWED	
<b>T</b> 2	EKHSTSDFLIGPCFFLSCPIGIEDFRTWFIDLWNNSIIPYLQEGAKDGIKVHGQKAAWED	
	* **.** *** ** ** * ** **** ***. ** * ***	
Т	${\tt PSKWVLDTYPWSSATLPQESPALLQLRPEDVGYESCTSTKEATTSKHIPQTDTEGDPLMN}$	2400
Т3	PAKWVMDTYPWAASPQQHEWPPLLQLRPEDVGFDGYSMPREGSTSKQMPPSDAEGDPLMN	
T2	PVEWVRDTLPWPSAQQDQSKLYHLPPPTVGPHSIASPPEDRTVKDSTPSSLDSDPLMA	
	* ** ** ** * .* * * * * ***	
T	MLMKLQEAANYSSTQSCDSESTSHHEDILDSSLESTL	
Т3	MLMRLQEAANYSSPQSYDSDSNSNSHHDDILDSSLESTL	
T2	MLLKLQEAANYIESPDRETILDPNLQATL	

Fig. 21 (cont'd 3)

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Alignment of the T protein with the POM121 protein

10 20 30 40 50 --60 T-Protein MDLSSEMNRHGKNPVSHKLEDQKKIYTDWANHYLAKSGHKRLIKDLQQDIADGVLLAEII POM121 T-Protein QIIANEKVEDINGCPRSQSQMIENVDVCLSFLAARGVNVQGLSAEEIRNGNLKAILGLFF POM121 ---MSPAAAAADGGERRRP------PLGVREGRGR-TRGCGGPAGAAALGLALLGLAL SLSRYKOQQHHQQQYYQSLVELQQRVTHASPPSEASQAKTQQDMQSRLPGPSRVPAAGSS T-Protein POM121 YLV-----P---AAAALAWLAVGASAAWWGLSREPRGP--T-Protein SKVQGASNLNRRSQSFNSIDKNKPPNYANGNEKGEDPETRRMRTVKNIADLRQNLEETMS M121 ---RGLSSFVRESR-----RHPRPALTASPLPAKSP------VNGSLCEPRS T-Protein  ${\tt SLRGTQISHSTLETTPDSTVTTEVNGRTIPNLTSRPTPMTWRLGQACPRLQAGDAPSLGA}$ POM121 PLGGPDPAELLLMGSYLG------KPGPPEPALPQD-PRDRPGRRPPSRS .\* \* \* \* \* \* \* T-Protein GYPRSGTSRFIHTDPSRFMYTTPLRRAAVSRLGNMSQIDMSEKASSDLDMSSEVDVGGYM POM121 PPSSSTAQRVHHVYP---ALPTPLLRPSRR------PPHRDCGPLS \* , \* \* \* \* \*\*\* \* . T-Protein SDGDILGKSLRTDDINSGYMTDGGLNLYTRSLNRIPDTATSRDIIQRGVHDVTVDADSWD POM121 SRFVITPR-RRYPIQQAQYSLLGALPTVCWNGGHKKAVLSARNS-RMVCSPVTVRIAPPD % ?rotein DSSSVSSGLSDTLDNISTDDLNTTSSVSSYSNITVPSRKNTQLRTDSEKRSTTDETWDSP POM121 ------sklfrspmpeqilsttlsspssnapdpcaketvlnalkekkkrtvaeedq-. . .\*. \* \*\* \* \* \* \* \* \* \* \* T-Protein EELKKPEEDFDSHGDAGGKWKTVSSGLPEDPEKAGQKASLSVSQTGSWRRGMSAQGGAPS POM121 LHLDGOENKRRHDSSG-----SGHSAFEPLVANGVPAAFVPKPGSLKRSLASQSSDDH \* \* \* \* .\* \* .\* .\* ... T-Protein RQK-AGTSALKTPGKTDDAKASEKGK-APLKGSSLQRSPSDAGKSSGDEGKKPPSGIGRS POM121 LNKRSRTSSVSSLTSTCTGGIPSSSRNAITSSYSSTRGVSQLWKRSG-PTSSPFSSPASS . \* \* \* \* \* \* T-Protein TATSSFGFKKPSGVGSSAMITSSGATITSGSATLGKIPKSAAIGGKSNAGRKTSLDGSQN POM121 RSQTPERPAKKTREEEPCHQSSSSAPLVTDKESPGEKVTDPATGKQQSLWTSPPTPGSSG 

T-Protein POM121

QDDVVLHVSSKTTLQYRSLPRPSKSSTSGIPGRGGHRSSTSSIDSNVSSKSAGATTSKLR QRKRKIQLLPSRRGDQLTLPPP-----P-ELG--YSITAEDLDMERR---AS---LQ

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T-Protein POM121	EPTKIGSGRSSPVTVNQTDKEKEKVAVSDSESVSLSGSPKSSPTSASACGAQGLRQPGSK WFNKVLEDKTDDASTPATDTSPATSPPFTLTLPTVGPAASPASLPAPSS* ** * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
T-Protein POM121	YPDIASPTFRRLFGAKAGGKSASAPNTEGVKSSSVMPSPSTTLARQGSLESPSSGTGSMGNPLLESLKKMQESPAPSSSEPPEAATVAAPSPPKTPSLLAPLVSP  * * * * * *** * * **
T-Protein POM121	SAGGLSGSSPLFNKPSDLTTDVISLSHSLASSPASVHSFTSGGLVWAANMSSSSAGSKDLTGPLASTSSDSKPTTTFLGLASASSATPLTDTKAPGVSQAQLCVSTPAATAP *.* ** ** ** *
T-Protein POM121	TPSYQSMTSLHTSSESIDLPLSHHGSLSGLTTGTHEVQSLLMRTGSVRSTLSESMQLDRN SPTPASTLFGMLSPPASSSSLATPGPACASPMFKPIFPATPKSESDN .* * ** * *
T-Protein OM121	TLPKKGLRYTPSSRQANQEEGKEWLRSHSTGGLQDTGNQSPLVSPSAMSSSAAGKYHFSN PLPTSSSAATTTPASTALPTTATATAHTPKPIFESVEPFAAMP ** ** *. * . * * *
T-Protein POM121	LVSPTNLSQFNLPGPSMMRSNSIPAQDSSPDLYDDSQLCGSATSLEERPRAISHSGSFRD LSPPFSLKQTTAPATTAATSAPLLTGGTATSTVATGTTAS * * * * . * . * . * . *.
T-Protein POM121	SMEEVHGSSLSLVSSTSSLYSTAEEKAHSEQIHKLRRELVASQEKVATLTSQLSANAHLV ASKPVFGFGVTTAASTASTIASTSQSILFGGAPPVTASSSAPALASIFQFGKPLA . * * ** . * . * . * . * . * . *
T-Protein POM121	AAFEKSLGNMTGRLQSLTMTAEQKESELIELRETIEMLKAQNSAAQAAIQGALNGPDHPP PAASVAGTSFSQSLASSAQTAASNSSGGFSGFGGTLTTSTSAPATTSQPTLTFSNTVT  *
Protein	KDLRIRROHSSE-SVSSINSATSHSSIGSGNDADSKKKKKNWLRSSFKQAFGKKKSTK- PTFNIPFSASAKPALPTYPGANSQPTFG-ATDGATKPALAPSFGSSFTFGNSVAS * * *.* . * . * . * . * . * . *
T-Protein POM121	PPSSHSDIEELTDSSLPASPKLPHNAGDCGSASMKPSQSASAICECTEAEAEIILQLKSE APSAAPAPAAFGGAAQPAFGGLKASASTFGTPASTQPAFGSTTSVFSFGSA **. * * * * * * * *
M. Desate - !	LREKELKLTDIRLEALSSAHHLDQIREAMNRMQNEIEILKAENDRLKAETGNTAKPTRPP
T-Protein POM121	TTSSSSLFGSSTPS-PF
	TTSGFGAAAATTQTTHSGSSSSLFGSSTPS-PF  . * *
POM121 T-Protein	TTSSSSLFGSSTPS-PF  * * *. *  SESSSTSSSSRQSLGLSLNNLNITEAVSSDILLDDAGDATGHKDGRSVKIIVSISKGY TFGGSAAPAGGGGFGLSATPGTGSTSGTFSFGSGQSGTTGTTTSFGGSLSQNT

2.47 110/124 09/914549 GDLIRSHNLEVPE...PCGYLVGDNNIITVNLKGVEENSLDSFVFDTLIPKPITQRYFNLL T-Protein GTTGSSLSFGAPSTPAQGFVG------VGPFGSGAPSFSIGAGSKTPGARQRLQAR POM121 T-Protein MEHHRIILSGPSGTGKTYLANKLAEYVITKSGRKKTEDAIATFNVDHKSSKELQQYLANL ROHTRKK-----POM121 T-Protein AEQCSADNNGVELPVVIILDNLHHVGSLSDIFNGFLNCKYNKCPYIIGTMNQGVSSSPNL POMIZI T-Protein ELHHNFRWVLCANHTEPVKGFLGRYLRRKLIEIEIERNIRNNDLVKIIDWIPKTWHHLNS POM121

T-Protein F 7M121

FLETHSSSDVTIGPRLFLPCPMDVEGSRVWFMDLWNYSLVPYILEAVREGLQMYGKRTPW

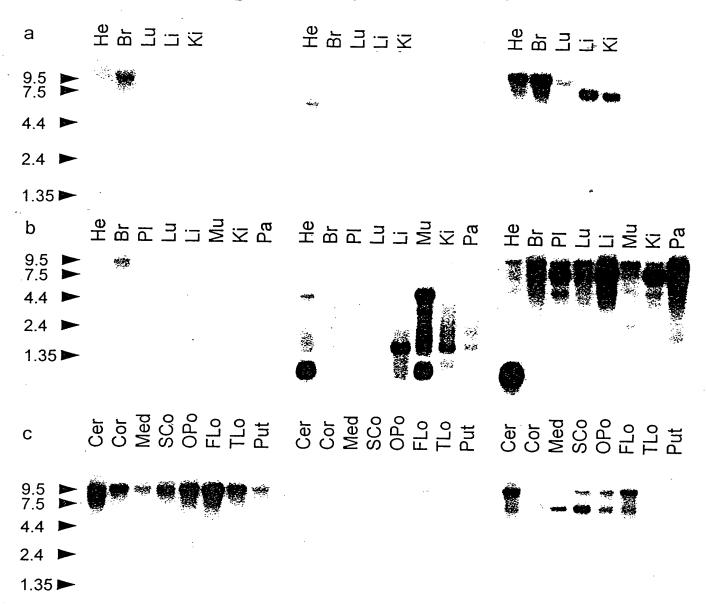
T-Protein POM121

EDPSKWVLDTYPWSSATLPQESPALLQLRPEDVGYESCTSTKEATTSKHIPQTDTEGDPL

T-Protein POM121

MNMLMKLQEAANYSSTQSCDSESTSHHEDILDSSLESTL 

Fig. 22 (cont'd 2)



Expression of the T gene family.

- a fetal tissue: left: T gene; middle: T2 gene; right: T3 gene.
  He = heart; Br = brain; Lu = lungs; Li = liver; Ki = kidney
- b adult tissue: left: T gene; middle: T2 gene; right: T3 gene.

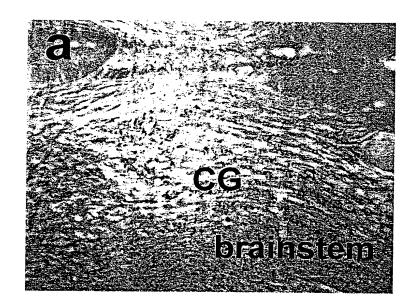
  He = heart; Br = brain; Pl = placenta; Lu = lungs; Li = liver; Mu = skeletal muscle; Ki = kidney; Pa = pancreas
- c adult brain regions: <a href="Left">Left</a>: T gene; <a href="middle">middle</a>: T2 gene; <a href="right">right</a>: T3 gene.

  Cer = cerebellum; Cor = cerebral cortex; Med = medulla; Sco = spinal cord; Opo = occipital pole; Flo = frontal lobe; Tlo = temporal lobe;

  Put = putamen

Fig. 24

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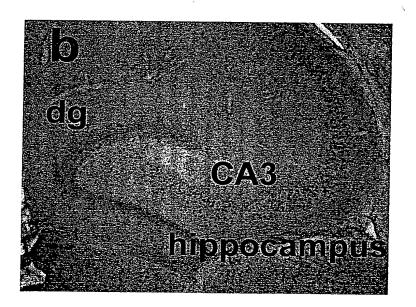
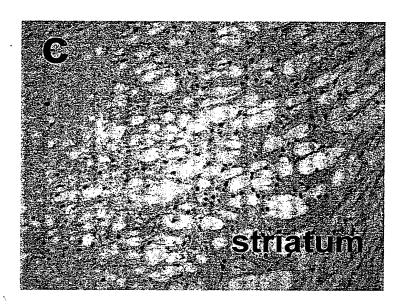
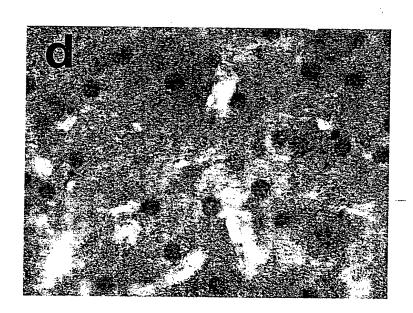


Fig. 24





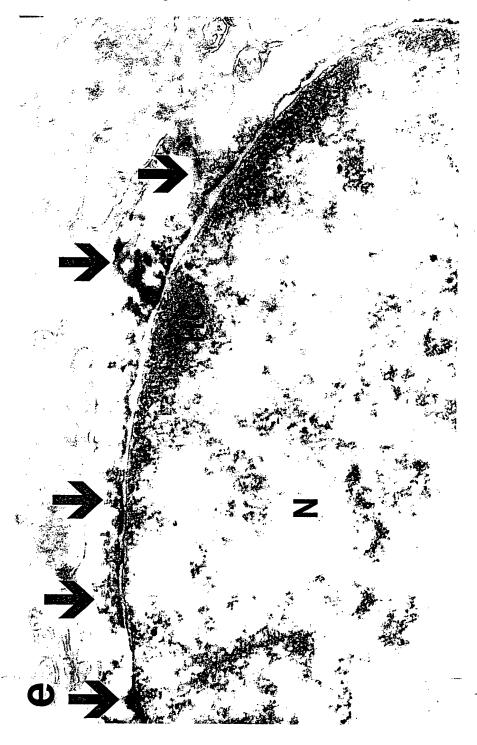
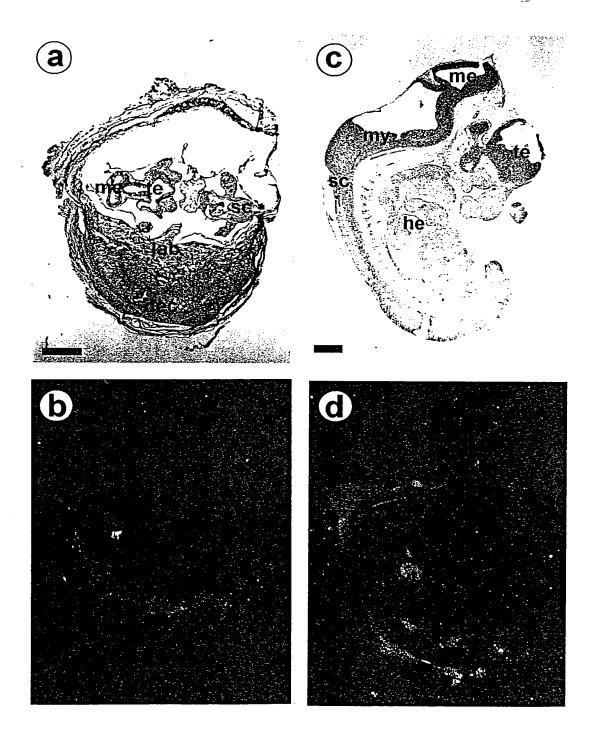


Figure legend of immunohisto and electron microscopy:

- a = brain stem. CG central grey = central grey of the brain stem
- b =hippocampus. dg = dental gyrus; CA3 cornu ammonis 3, both subregions of the hippocampus formation
- c = electronmicroscopic picture. N = nucleus, Hc heterochromati $\tilde{n}$  -

Fig. 25



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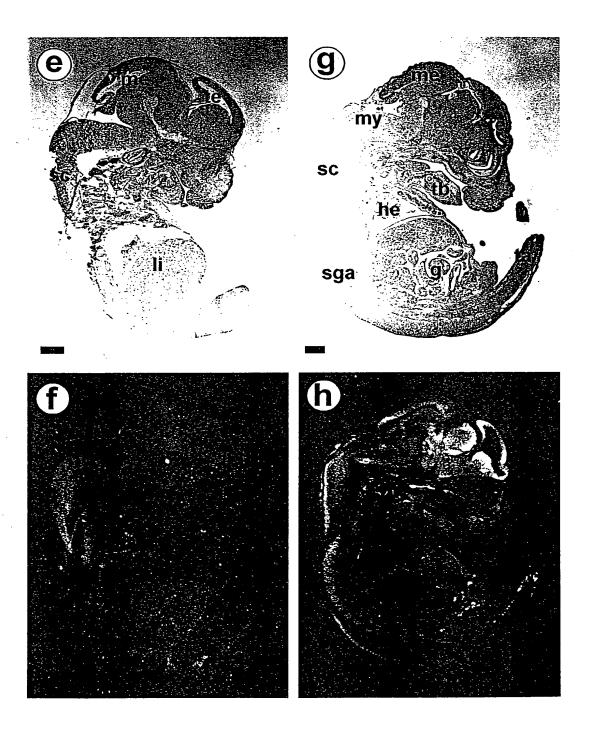
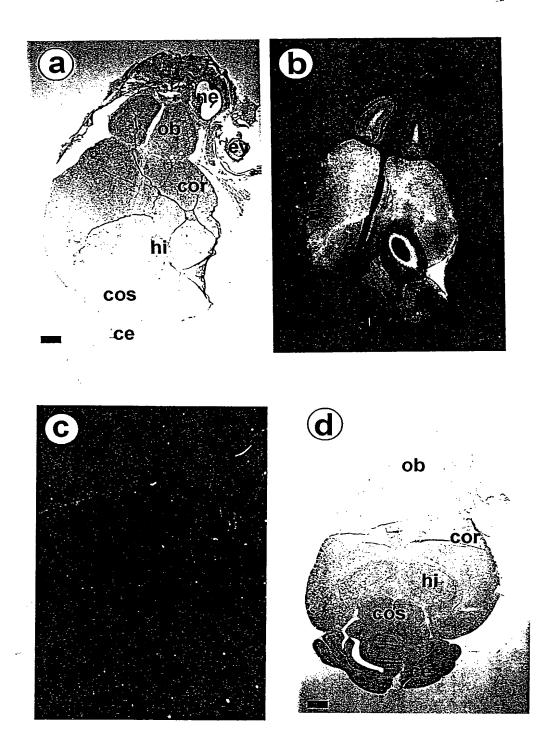


Fig. 26

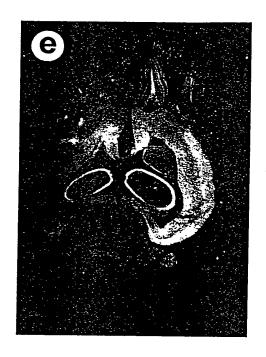
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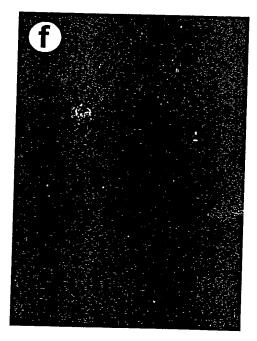


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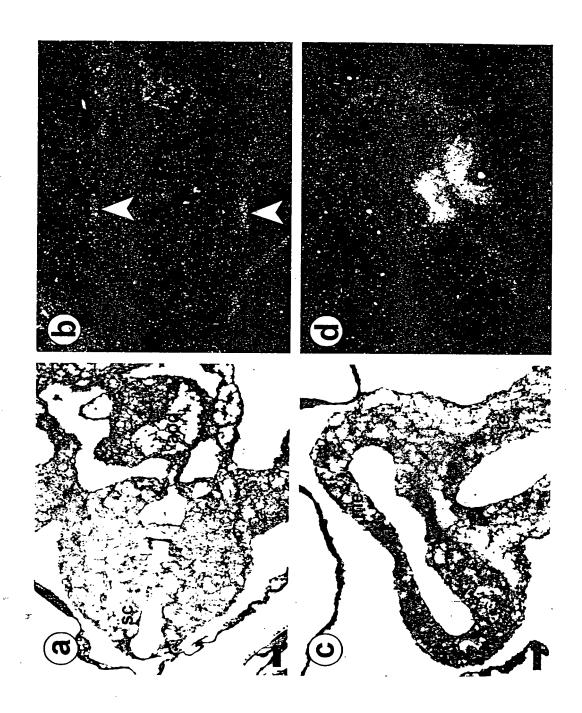


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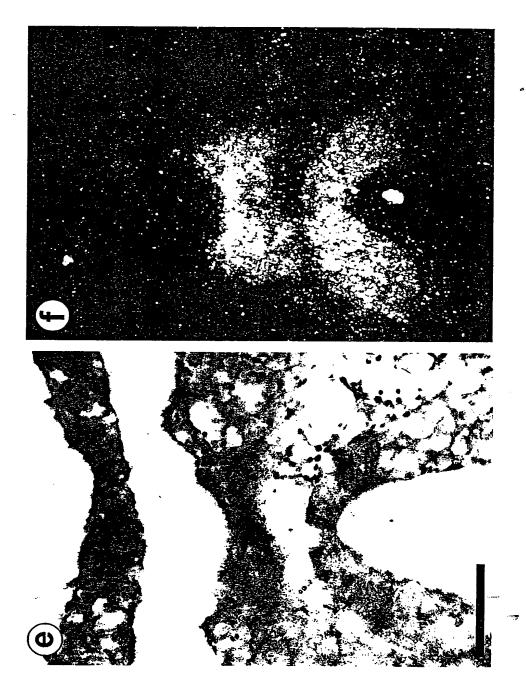


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Fig. 27



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Fig. 28

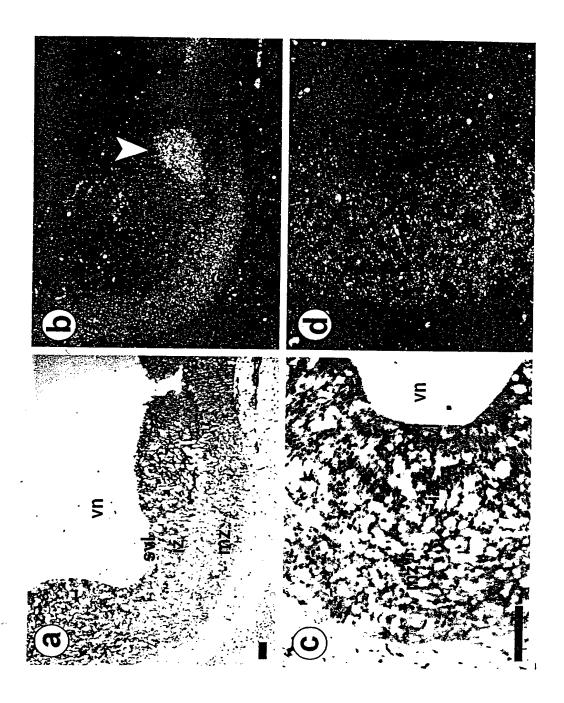
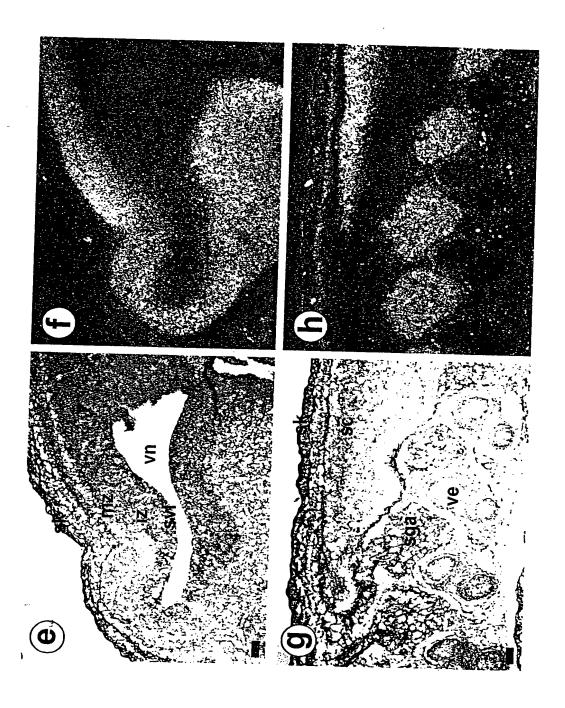
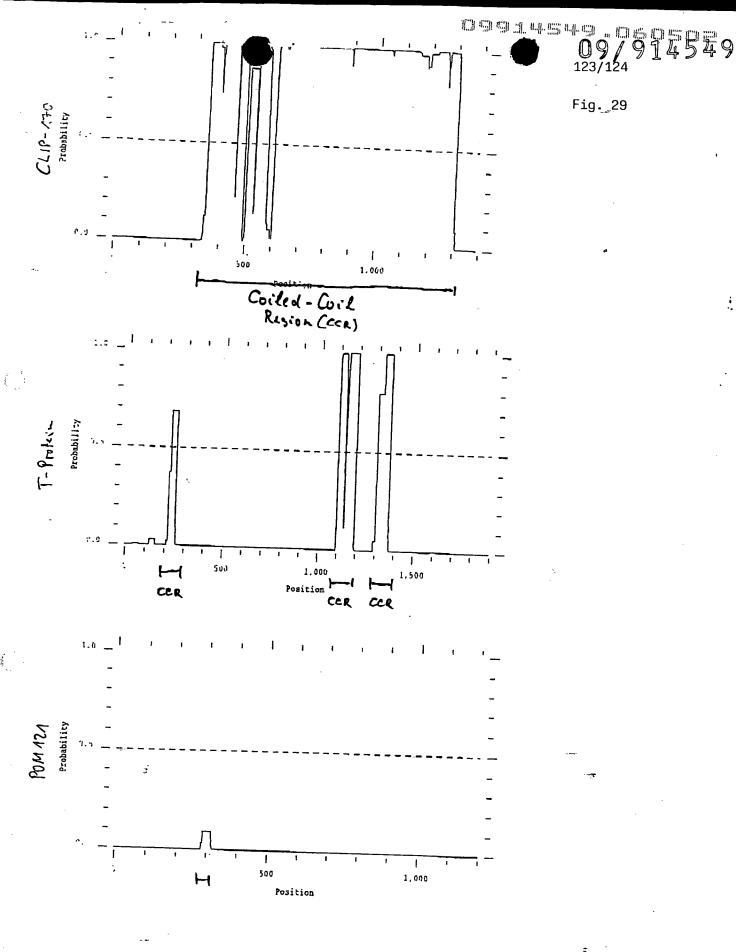


Fig. 28

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09914549 POMAZA Hydropho hić domain 120 160 T-Protuin Hydrophobic 120 160 domain T 3- Protes 120 160 Hydrophobic domain

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Fig. 30